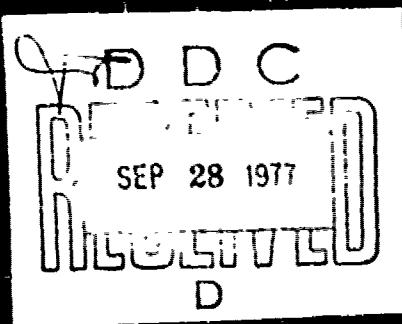


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SUBACUTE TOXICITY OF RDX  
AND TNT IN MONKEYS  
FINAL REPORT

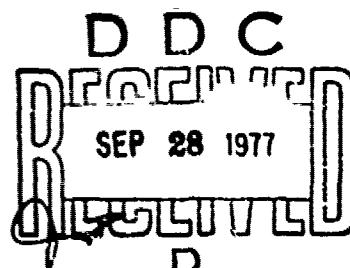
Submitted To:

Office of Naval Research  
800 N. Quincy Street  
Arlington, Virginia

Contract No. N00014-73-C-0162, NR 108-985

Submitted By:

Litton Bionetics, Inc.  
5516 Nicholson Lane  
Towson, Maryland



April 5, 1974

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SUBACUTE TOXICITY OF RDX AND TNT IN MONKEYS  
Contract N00014-73-C-0162, NR 108-985

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BIONETICS

Subacute Toxicity of RDX  
and TNT in Monkeys

DATE: April 5, 1974

#### SUMMARY

A study was carried out in 42 rhesus monkeys to evaluate the toxicity of RDX and TNT when given orally, once daily, seven days per week for 13 weeks (90 days). Dosages of RDX were 10, 1 and 0.1 mg/kg/day and for TNT were 1, 0.1 and 0.02 mg/kg/day.

Five monkeys on the highest dose of RDX showed 12 instances of CNS disturbance, usually involving tonic convulsions. One of these monkeys was euthanatized; the others recovered and survived the study. Except for frequent episodes of emesis, predominantly in the high dosage RDX group, no other clinical signs of toxicologic significance were observed.

Laboratory testing revealed only scattered changes of no toxicologic significance. Histopathologic examination showed some increases in numbers of degenerate or necrotic megakaryocytes in bone marrow sections and increased amounts of iron-positive material in liver cord cytoplasm, both occurring in the high dosage groups of both RDX and TNT. The toxicologic importance of these two findings is uncertain.



BIONETICS

SPONSOR: Office of Naval Research

DATE: April 5, 1974

MATERIAL: Cyclonite (RDX)  
Trinitrotoluene (TNT)

SUBJECT: FINAL REPORT  
Subacute Toxicity of RDX and TNT in Monkeys  
Contract N00014-73-C-0162, NR 108-985  
LBI Project No. 1366

I. OBJECTIVE

The objective of this study was to evaluate the toxicity of Cyclonite (RDX) and Trinitrotoluene (TNT) using oral administration to monkeys over a 90-day period.

II. MATERIAL

The test compounds and control mix used in this study were supplied by the Navy Toxicology Unit (NTU) and received by Litton Bionetics, Inc., in March 1973. The materials received consisted of the following:

Cyclonite (RDX) Mix: 20 bottles each containing 100 ml of a suspension of RDX. The concentration was stated to be 60 mg/ml in a 1 percent aqueous solution of methylcellulose. This was identified as LBI Compound No. 705.

Trinitrotoluene (TNT) Mix: 20 bottles each containing 100 ml of a suspension of TNT. The concentration was stated to be 2 mg/ml in a 1 percent aqueous solution of methylcellulose. This was identified as LBI Compound No. 706.

Control Mix: 20 bottles each containing 100 ml of a 1 percent aqueous solution of methylcellulose. This was identified as LBI Compound No. 707.



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### III. METHODS

#### A. Compound Preparation

After the compounds had been received at Litton Bionetics, the Sponsor discovered a residue of acetone was present in each bottle as a result of the process used to obtain a suspension of the material. In an effort to reduce whatever effect the acetone might have on the test results, each bottle of RDX, TNT, or Control Mix was mixed with the top off by means of a magnetic stirrer under 10 to 15 pounds negative pressure for a period of eight hours.

Just before dilution, the material was resuspended by gentle agitation or swirling and the dilution was prepared according to the following procedure.

1. To prepare Group A dilution (conc: 4 mg RDX/ml), dilute 33 ml of RDX Mix up to 500 ml with 1 percent methylcellulose.
2. To prepare Group B dilution (conc: 0.4 mg RDX/ml), dilute 50 ml of Group A dilution up to 500 ml with 1 percent methylcellulose.
3. To prepare Group C dilution (conc: 0.04 mg RDX/ml), dilute 50 ml of Group B dilution up to 500 ml with 1 percent methylcellulose.
4. To prepare Group D dilution (conc: 0.4 mg TNT/ml), dilute 100 ml of TNT Mix up to 500 ml with 1 percent methylcellulose.
5. To prepare Group E dilution (conc: 0.04 mg TNT/ml), dilute 50 ml of Group D dilution up to 500 ml with 1 percent methylcellulose.
6. To prepare Group F dilution (conc: 0.008 mg TNT/ml), dilute 100 ml of Group E dilution up to 500 ml with 1 percent methylcellulose.
7. To prepare Group G (Control) dilution, dilute 100 ml of Control Mix up to 500 ml with 1 percent methylcellulose.



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B. Animals

Forty-two (42) juvenile and adult cynomolgus (Macaca fascicularis) monkeys equally divided as to sex were selected from a group of 43 animals made available by authorized transfer from other government projects. The animals ranged in age from 36 to 56 months at the beginning of the study. The females weighed 2.0 to 4.2 kg and the males 2.6 to 4.6 kg.

The animals were all born into the LBI colony and were hand-raised (i.e., separated from their mothers and bottle fed) in the Kensington facility. Their apparent good health was demonstrated by clinical examinations, biochemical and hematological tests. Intestinal parasitism is essentially absent in house born and reared primates in our colony. All animals had been tuberculin tested intrapalpebrally at 12-week intervals since six months of age. Clinical judgment of staff veterinarians throughout the pre-study and study periods determined the need for any treatment. By pre-arrangement, no treatment was instituted without checking with the study monitor at the Navy Toxicology Unit.

All animals were identified by a number assigned at birth and permanently tattooed on the chest.

C. Husbandry

During the course of the study (and for approximately one year prior to the study), the animals were individually housed in suspended wire cages in one animal room which was separate from other LBI animals' rooms.

The 42 animals on study were picked from a group of 43 which were available. Because of this, it was necessary to use five animals which had demonstrated high methemoglobin values during the pre-drug testing. Each of these animals was placed into one of five separate test groups for two reasons:



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1. It would minimize the impact of the high methemoglobin values on any one group.

2. These animals would be potentially more sensitive test systems in that they had already demonstrated a predisposition to methemoglobin formation under normal circumstances. Should the test compound have only a slight tendency to cause methemoglobin formation, it might be demonstrated more readily in these animals.

The groups selected to include these animals were Group A (high RDX), Group C (low RDX), Group D (high TNT), Group F (low TNT) and Group G (Control).

All the animals had water ad libitum and were fed once daily with a diet of commercial primate chow (Purina 25, Ralston Purina Co., St. Louis, Mo.).

#### D. Animal Groups

The 42 animals were divided into seven treatment groups, each containing six animals (three males and three females). One group of six animals served as controls for both test compounds.

The animals were assigned to groups in as random a way as possible consistent with the following:

1. The animals with high methemoglobin values (see Section C above) were distributed throughout five groups.

2. Because of the wide variation in body weights, the animals were <sup>roughly</sup> arranged so that total group weights for each sex were as equal as possible.

The animals were then assigned cages within the testing room in a manner which evenly distributed the animals of the various groups and of both sexes throughout the room.



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Each test group was assigned a color as well as a letter designation as indicated in the table below. Once cage assignments were made, a piece of colored tape with the number of the animal was affixed to the cage. (See Section G - Compound Administration) The assignments are tabulated below.

<u>Group</u>	<u>Dosage/Day</u>	<u>Color Code</u>	<u>Male</u>	<u>Age months</u>	<u>Female</u>	<u>Age months</u>
A	High RDX (10 mg/kg)	Red	B4050	39	B3609	50
			B3543	51	B3739	48
			B3406	54	B3733	48
B	Medium RDX (1 mg/kg)	Blue	B3952	43	B3599	50
			B3563	51	B3891	45
			B4093	38	B3718	49
C	Low RDX (0.1 mg/kg)	Yellow	B4254	36	B3613	50
			B3709	49	B3646	50
			B3776	48	B3617	50
D	High TNT (1 mg/kg)	Green	B3697	49	B3516	52
			B3775	48	B3928	44
			B4301	36	B3857	46
E	Medium TNT (0.1 mg/kg)	Purple	B3782	48	B3720	49
			B3427	53	B3608	50
			B3773	48	B3863	45
F	Low TNT (0.02 mg/kg)	Orange	B3559	51	B3818	47
			B3848	46	B3867	45
			B4239	36	B3860	45
G	Control	White	B4046	40	B329?	56
			B4238	36	B3735	48
			B3628	50	B4246	36

E. Physical Examination

36-54 mo

34-56 mo avg

1. General Examination

A general physical examination including a careful inspection of the general condition of the animals and palpation was performed prior to the



**BIONETICS**

start of compound administration and was repeated during the fifth and ninth weeks and at the close of the study.

2. Body Weights

Body weights were obtained before the onset of compound administration and again during each week of study.

3. Ophthalmoscopic Examination

An ophthalmoscopic examination utilizing a transillumination light and a direct ophthalmoscope was conducted prior to the start of compound administration and again at the close of the study. The animals were chemically restrained with ketamine HCl (Ketaset<sup>®</sup>), and the pupils were dilated with tropicamide (Mydriacyl<sup>®</sup>, Alcon).

4. Daily Observations

Careful daily observations were made for indications of ill health or injury and for signs of systemic effects. These included general appearance, appetite, body excretions, motor activity, and behavior. In addition to the observations which took place at the times of compound administration and feeding, specific observations were also made early in the morning, late in the afternoon, and at least once during the night.

F. Laboratory Tests

The laboratory tests listed below were performed once each in November and December 1972, again just prior to starting the study in March 1973, during the fifth and ninth weeks of the study, and just after compound administration was stopped. Repeat determinations were performed when aberrant or possibly abnormal values were obtained.



BIONETICS

1. Hematology

The following hematological determinations were performed:

complete blood count - including RBC, total and differential,  
WBC, packed cell volume, hemoglobin, and reticulocyte count  
Heinz body count  
methemoglobin  
RBC fragility test

2. Clinical Chemistry

The collection of blood for all of the following clinical chemistry determinations was done after an overnight fast.

calcium	total protein
phosphorus	albumin
glucose	bilirubin
BUN	alkaline phosphatase
uric acid	LDH
cholesterol, total	SGOT

3. Urinalysis

Urine was collected in aluminum pans suspended beneath the cages of the animals. The pans were constructed and positioned so that they covered the bottom of each cage and allowed the urine collected to flow directly into a collecting bottle. Wire mesh over each pan was used to minimize fecal contamination. Animals were watered from bottles during collection to prevent dilution of urine. A metal splash guard on each side of each cage prevented cross splashing of urine into adjacent pans. The following parameters were measured:

specific gravity	sugar
pH	ketones
bilirubin	blood
protein	microscopic examination of sediment

A 24-hour sample was used to determine the urine glutamic-oxaloacetic transaminase (UrineGOT) level.



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4. Sulfobromophthalein, (Bromsulfophthalein), Dye Clearance Test (BSP)

The BSP test is a liver function test based on the measurement of the amount of time necessary for one half the amount of sulfobromophthalein dye, Bromsulfophthalein (BSP) to be cleared from the blood stream by the liver. It was performed by the method of C. Cornelius, modified for the rhesus monkey by W. F. Loeb of Bionetics. Application of this test to the cynomolgus monkey gave no evidence that it was not equally valid in this species.

5. RDX and TNT in Plasma

The plasma level of each of the test materials was determined for each animal at NTU by a method developed at that institution. The plasma level determinations were obtained at five weeks and nine weeks and again after compound administration was stopped. Additionally, plasma was obtained from three animals at the time they demonstrated CNS disturbances during the study.

G. Compound Administration

One week's supply of test and control mixes was prepared each Thursday morning before dosing and was used through the following Wednesday. On Thursday afternoon each animal was weighed, and the dosage calculated for this weight was put into effect the following day (Friday) and used through the next Thursday. Each flask of diluted material was marked with a piece of colored tape, coded for the particular dilution, and labeled by group letter and compound dilution (control or low, medium or high of RDX or TNT). By matching the color on the cages and flasks, in addition to reading the animal number, the chances of mistakes in compound administration were minimized.

The test compounds were administered seven days per week, usually between 10:00 a.m. and noon. (Occasionally the bleeding schedule caused a slight delay in the start of compound administration.)



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The administration was by oral-gastric intubation as this assured a correct amount of drug delivery to the animal and eliminated the possibility of animals not eating all of the vehicle in which the drug might be mixed.

At the beginning of the study, the animals were fed at 8:00 a.m. with compound administration following at 10:00 a.m. On Day 1 one animal vomited during the intubation process or immediately afterwards, and on Day 2 this occurred in three animals. On Day 3 of the study, therefore, the schedule was changed so that intubation occurred between 10:00 a.m. and noon and the animals were fed between 1:00 and 2:00 p.m.

Any animal which had an episode of emesis during the intubation process itself, while the tube was being withdrawn, or within one hour following intubation, was reintubated immediately and the original dose of test compound re-administered. Animals which demonstrated emesis more than one hour after intubation were not retreated.

#### IV. RESULTS

Because this study used only three animals of each sex in each dosage group, no formal statistical analysis is considered justifiable. A mean for each group is presented to facilitate comparisons. The significance or lack thereof of differences between groups is based upon the judgment of the experimenters.

##### A. Physical Examinations

There were no untoward effects observed during the scheduled physical examinations which could be attributed to compound administration.



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B. Body Weight

It appears that there was a loss of about 10 percent of body weight during the first week of compound administration. Most animals did not regain all the lost weight although there was a return towards the initial values. This would not normally be expected in a group of young and, presumably, growing animals. The weight loss occurred in the control as well as all groups of test animals and can probably be attributed in part to the stress of compound administration each day. An effect of the test compounds is suggested by the fact that the test animals did not regain as much weight as the controls. (See Table 1.)

C. Ophthalmoscopic Examination

Ophthalmoscopic examination revealed no effects on the eyes of the test animals which could be attributed to the administration of the test compounds.

D. Daily Observations

For the most part, the animals remained alert and active during the entire course of the study. The test compounds had minimal effect on general physical activity, and the appetites of the animals remained good with few exceptions.

Emesis and CNS disturbances were the major exceptions to the normal status of the animals.

1. Emesis

As indicated in Section III.G., several animals demonstrated gagging upon oral-gastric tube passage. Since this resulted in loss of the food consumed when monkeys were fed prior to compound administration, the schedule was changed so that feeding occurred two to three hours postcompound administration.



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Individual cases of emesis are recorded below:

<u>Animal Number</u>	<u>Date</u>	<u>Time Emesis Occurred</u>
<u>CONTROL</u> - One animal vomited once.		
4046	5/21/73	Emesis in a.m.
<u>LOW RDX (0.1 mg/kg)</u> - One animal vomited once.		
4254	5/13/73	Emesis during night.
<u>MEDIUM RDX (1 mg/kg)</u> - Three animals vomited 1 to 3 times each.		
3952	5/22/73	Emesis when tubed; held compound second time.
	6/24/73	Emesis when first tubed; retubed.
	7/17/73	Emesis at tubing; retubed.
3563	8/08/73*	Emesis during day.
4093	6/24/73	Emesis a.m.
	6/25/73	Emesis during night.
<u>HIGH RDX (10 mg/kg)</u> - Five animals vomited 3 to 10 times each		
4050	5/13/73	Emesis during night and during that day.
	5/16/73	Emesis during day.
	6/05/73	Emesis during a.m.
3543	5/11/73	Emesis with convulsions observed by nightman.
	5/15/73	Emesis at tubing; retubed.
	5/17/73	Emesis at tubing; retubed.
	6/02/73	Emesis at tubing; retubed.
	6/03/73	Emesis at tubing; retubed.
	6/04/73	Emesis at tubing; retubed; some emesis again.
	6/05/73	Emesis at tubing; retubed.
	7/13/73	Emesis at tubing; retubed.
	7/23/73	Emesis at tubing; retubed.
	8/06/73	Emesis at tubing; retubed.



BIONETICS

<u>Animal Number</u>	<u>Date</u>	<u>Time Emesis Occurred</u>
----------------------	-------------	-----------------------------

HIGH RDX (10 mg/kg) cont'd

3739	5/11/73	Emesis at 2:25 p.m.
	5/21/73	Emesis a.m.
	6/05/73	Emesis a.m.
3406	5/11/73	Emesis at 2:25 p.m.
	5/14/73	Emesis during night.
	5/20/73	Emesis a.m.
	5/21/73	Emesis a.m.
3609	5/21/73	Emesis a.m.
	5/25/73	Emesis a.m.
	6/05/73	Emesis a.m.
	8/05/73	Emesis when tubed.

LOW TNT (0.02 mg/kg) - Two animals vomited 1 or 2 times each.

3559	5/13/73	Emesis during night.
	6/30/73	Emesis a.m.
3848	5/21/73	Emesis a.m.

MEDIUM TNT (0.1 mg/kg) - One animal vomited once.

3773	8/08/73*	Emesis during day.
------	----------	--------------------

HIGH TNT (1 mg/kg) - Two animals vomited 1 or 3 times each.

3857	6/13/73	Heavy emesis a.m.
	7/04/73	Emesis a.m.
	8/08/73*	Emesis during day.
3928	8/08/73*	Emesis during day.

\*These episodes of emesis occurred on the day following the last day of compound administration.



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2. CNS Disturbances

There were nine instances (in five different monkeys) when animals were observed to be having CNS disturbances. These all occurred in animals receiving the high dose level of RDX. Individual documentation of these is provided below. After the CNS disturbance in Animal No. B4050 on June 16, 1973, the Sponsor requested that, if possible, plasma be obtained for RDX levels during any future occurrences. Three such samples were obtained. These values are included in the reports below.

Animal No. B3733

June 26, 1973 (after the 48th dose): The animal was observed at 2:00 p.m. sitting in its cage and shaking. It then fell over to a prone position. There was heavy,ropy salivation with food still in the pouches of the animal. (It had been fed 30 minutes before.) When picked up four minutes later, the animal sat up and gave little resistance to handling. The plasma level of RDX was 3.2 ug/ml.

July 5, 1973 (after the 57th dose): The animal had received ketamine HC1 as a part of the ophthalmoscopic examination at 2:45 p.m. At 4:05 p.m., the animal was observed to be lying down in its cage with steady jerking movements of the limbs. When touched, the entire animal began to shake with tonic-type convulsions.

Animal No. B4050

June 13, 1973 (after the 35th dose): As observed by the night technician, the animal was found in a tonic-type convulsion and urinating. The eyes were open and the pupils dilated. The convolution lasted approximately 45 to 55 seconds. The animal then became very sensitive to sounds ("jumpy") and salivated



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profusely. There was no response to touch. After a recovery period of 1 to 1-1/2 minutes, the animal began to eat, and all was normal except that the pupils remained dilated.

June 16, 1973 (after the 38th dose): The animal was found having a tonic-type convulsion with urination, dilated pupils and salivation. The animal responded to sound, but not to touch. Recovery occurred over a 1 to 1-1/2 minute period.

Animal No. B3543

May 11, 1973 (after the 2nd dose): The animal was observed at 10:00 p.m. to be lying down in the cage and trembling. The pupils were dilated, and the head back. This lasted 1-1/2 to 2 minutes. Then there was slow improvement. The animal gripped the cage bars and finally sat back up. The animal seemed more aware of its surroundings. Recovery took 5 minutes.

Animal No. B3739

June 12, 1973 (after the 34th dose): The animal was acting in an unusual manner (unsteady, easily caught) when caught for the morning intubation. Shortly after the intubation dosing, the animal was observed lying in the cage in a tonic-type convulsion. It had pinpoint pupils and was salivating. It would lie quietly in the cage and then twitch. The body temperature was less than 93°F, and the gums were pale. The animal was given parenteral fluids and put on heat. Within an hour, the pupils were more normal in size. The animal was still lying down at 3:00 p.m., and fluids were again administered parenterally at that time. At 4:30 p.m., the animal started to move about. It would still have tonic-type twitches when touched. The eyes appeared normal and reacted to light. When returned to its cage, it grasped the cage bars.



BIONETICS

June 13, 1973 (after the 35th dose): During the morning of June 13, the animal was observed to be hunched over with its chin resting in the water bowl (which had been put in the cage since the animal had appeared too weak to obtain water at the drinking valve the night before). The animal was stiff, the pupils pinpoint, and the cheek pouches stuffed with the paper cage-lining material. When placed on the edge of an examination table, the animal stood upright and lurched forward. It would have fallen if not restrained. With concurrence of the Sponsors, the animal was killed at noon. The plasma level of RDX at euthanasia was 2.0  $\mu\text{g}/\text{ml}$ .

Animal No. B3609

May 21, 1973 (after the 12th dose): The animal was found lying on the cage floor at 1:20 p.m. She sat up a short time later but seemed depressed for the rest of the afternoon and did not eat well that day.

June 29, 1973 (after the 51st dose): The animal was found lying on the cage floor markedly depressed at 2:35 p.m. By 2:40 p.m. she was sitting up. There was a moderate amount of salivation. The plasma level of RDX was 3.7  $\mu\text{g}/\text{ml}$ . This animal displayed a poor appetite for most of the study period.

3. Other Conditions of Note

Animal No. B3891, Medium RDX

This animal displayed a poor appetite for most of the period of the study.

Animal No. B3609, High RDX

This animal displayed a poor appetite for most of the period of the study.



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Animal No. B3406, High RDX

June 6, 1973 (after the 28th dose): The right humerus of this animal sustained a spiral midshaft fracture during the capture process for intubation. During the afternoon of the same day, the animal was given ketamine HCl and atropine and then anesthetized with pentobarbital Na (Nembutal<sup>®</sup>) "to effect." The fracture was reduced, and a pin inserted by the open method. There was a completely routine post-operative recovery and healing process. Daily administration of the RDX continued throughout the episode.

Animal No. B3559, Low TNT

This animal had a poor appetite on June 27, 1973, and on June 28 was observed to vomit up a black material. The animal salivated profusely and would lie down in the cage whenever no one was present. Through June 29 the animal appeared quite depressed and was observed to be unsteady in the cage (weaving and groggy in appearance). Its appetite was poor; the animal ate more during the night of June 29/30, and 75 cc of fluids were administered parenterally on June 30. By the afternoon of June 30, the animal was only slightly depressed, and this improved to near normal by July 1.

Animal No. B3818, Low TNT

This animal had numerous episodes of diarrhea with blood and mucous during the study period. She had had these during the pre-drug period but was put on study due to a shortage of animals. The diarrhea was, for the most part, refractory to treatment.

Animal No. B3516, High TNT

On the morning of May 19, 1973, a small amount of a clear mucous material was found in the drop pan. The source was unknown, and the animal displayed no signs of illness.



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E. Laboratory Tests

1. Hematology

The values obtained for the complete blood counts are presented in Table 2. The scattered instances of abnormal values completely fail to fall into any pattern suggesting compound effects.

The Heinz body counts are presented in Table 3. No compound effects are indicated.

The methemoglobin determinations are presented in Table 4. The occasional individual elevated values are inconsistent and of no toxicological importance.

The values for (erythrocyte) fragility are presented in Table 5. No compound effects are revealed.

2. Clinical Chemistry

The results of the several blood analyses are presented in Table 6. The scattered deviations from normal ranges appear to have no toxicological significance.

3. Urinalysis

Routine and microscopic examination of urine provided the results presented in Table 7. There do not appear to be any significant deviations from normal.

The urine glutamic-oxaloacetic transaminase (UrineGOT) values are presented in Table 8. The scattered values which might be considered abnormal show no pattern of toxicological importance.

4. Sulfobromophthalein, (Bromsulfophthalein), Dye Clearance Test (BSP)

The results of BSP excretion tests are presented in Table 9. No important deviations from normal were seen.



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5. RDX and TNT in Plasma

The results of the analysis of plasma samples for RDX and TNT are presented in Table 10.

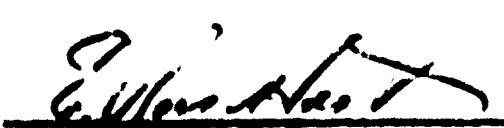
F. Postmortem Examination

The organ weights, gross necropsy findings, incidence of microscopic findings, detailed death report on the one monkey which became moribund (B3739) and a summary of pathology signed by the pathologist are included as an Appendix.

Only two apparent differences between control and treated animals were noted. Necrotic and degenerative megakaryocytes were noted in all bone marrow sections, but two specimens in the high TNT group had no normal megakaryocytes. This is a toxic manifestation and may be related to thrombocytopenia, but the association cannot be made in this study since no platelet counts were made. The other difference (between control and high dosage groups of both RDX and TNT) is in the amount of iron-positive material in liver cord cell cytoplasm. The toxicologic importance of this finding is uncertain.

Submitted by:

  
DAVID P. MARTIN, V.M.D.  
Director, Laboratory of Animal  
Medicine and Science

  
E. ROSS HART, Ph.D.  
Director, Department of  
Pharmacology and Toxicology

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BIOMETRICS

V. PATHOLOGY SUMMARY

At the time of necropsy the following organs were removed and weighed: thyroid, heart, liver, kidneys and adrenal glands. The weights are given in a separate table.

Selected tissues were processed for microscopic examination. These were sections of stomach, small intestine, lung, heart, kidneys, liver, spleen, thyroid, bone marrow, adrenal glands, brain and any lesions from each monkey in the control and the two high dose groups. Liver, kidney, spleen and any lesions were examined from each of the monkeys in the other groups (low and intermediate).

Necrotic and degenerate megakaryocytes were noted in the bone marrow sections. Twenty-five megakaryocytes from each monkey bone marrow were examined and classed as necrotic, degenerate or normal. There appeared to be a difference between the high TNT group and the control and high RDX groups in that there were two specimens, B3516 and B3857, in which no normal megakaryocytes were seen. This is a toxic manifestation and may be related to thrombocytopenia, however, platelet counts were not performed so a further correlation can not be made.

Hemosiderin was noted in sections of bone marrow, intestine, liver and spleen. It was felt there might be a difference between the three groups, therefore a Prussian blue stain for iron was done on sections of bone marrow, intestine, liver and spleen from the control, high RDX and high TNT groups. The only readily apparent difference appears to be in the amount of iron-positive material present in the cytoplasm of the liver cord cells. It is greater in the high RDX and high TNT groups than in the control group.

October 10, 1973

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Veterinary Pathologist



BIONETICS

## LITTON BIONETICS, INC.

TABLE 1

BODY WEIGHT  
(kilograms)

MONKEY NO. AND SEX	PRE- DRUG	WEEKS OF DRUG ADMINISTRATION									
		1	2	3	4	5	6	7	8	9	10
B4050 (M)	3.8	3.7	3.1	3.2	3.3	3.2	3.2	3.3	3.1	3.2	3.4
B3543 (M)	5.2	4.8	4.7	4.7	4.6	4.5	4.7	4.6	4.6	4.9	4.7
B3406 (M)	4.3	3.7	3.6	3.6	3.5	3.4	3.8	3.5	3.5	3.5	3.6
Mean	4.4	4.1	3.8	3.8	3.7	3.7	3.9	3.8	3.7	4.0	3.8
B3733 (F)	3.2	3.1	2.6	2.8	2.7	2.8	2.8	2.9	2.7	2.9	3.0
B3739 (F)	3.0	2.5	2.4	2.4	2.2	—	—	—	—	—	—
B3609 (F)	2.5	2.4	2.3	2.3	2.4	2.3	2.2	2.4	2.3	2.4	2.4
Mean	2.9	2.6	2.4	2.5	2.4	2.6	2.5	2.6	2.6	2.6	2.6
RDX - 10 MG/KG											
B3952 (M)	5.0	4.9	4.7	4.9	4.7	4.9	4.8	4.9	4.7	4.7	4.8
B3563 (M)	3.8	3.4	3.5	3.7	3.6	3.5	3.5	3.6	3.5	3.5	3.6
B4093 (M)	2.6	2.4	2.4	2.5	2.5	2.6	2.5	2.5	2.6	2.6	2.6
Mean	3.8	3.6	3.5	3.7	3.6	3.6	3.6	3.7	3.6	3.6	3.7
RDX - 1 MG/KG											
B3599 (F)	3.6	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.2
B3718 (F)	3.1	2.8	2.8	3.0	2.8	2.8	2.9	2.9	2.7	2.8	2.8
B3891 (F)	2.6	2.4	2.4	2.5	2.5	2.4	2.5	2.6	2.4	2.5	2.5
Mean	3.1	2.3	2.0	2.9	2.8	2.8	2.8	2.9	2.8	2.8	2.8

## LITTON BIOMETRICS, INC.

TABLE 1 (continued)

BODY WEIGHT  
(kilograms)

MONKEY NO. AND SEX	PRE- DRUG	WEEKS OF DRUG ADMINISTRATION									
		1	2	3	4	5	6	7	8	9	10
		RDX - 0.1 MG/KG									
B4254 (M)	3.3	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.0	2.8	3.0
B3776 (M)	3.1	2.6	2.8	2.9	2.7	2.9	2.9	2.9	2.9	2.6	2.8
B3709 (M)	5.4	5.4	5.1	5.2	5.2	5.0	5.1	5.1	5.3	5.0	5.2
Mean	3.9	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.7	3.6	3.7
B3513 (F)	2.6	2.4	2.5	2.6	2.4	2.4	2.6	2.6	2.5	2.4	2.5
B3646 (F)	3.2	2.9	2.9	3.0	3.0	2.9	3.0	3.0	3.0	2.8	3.0
B3617 (F)	3.1	2.8	2.8	2.8	2.6	2.6	2.6	2.6	2.8	2.7	2.9
Mean	3.0	2.7	2.7	2.8	2.6	2.6	2.7	2.7	2.8	2.6	2.7

## LITTON BIOMETRICS, INC.

TABLE 1 (continued)

BODY WEIGHT  
(kilograms)

MONKEY NO. AND SEX.	PRE- DRUG	WEEKS OF DRUG ADMINISTRATION									
		1	2	3	4	5	6	7	8	9	10
B3697 (M)	5.1	5.4	4.6	4.7	4.6	4.6	4.4	4.4	4.3	4.4	4.5
B3775 (M)	3.7	3.5	3.4	3.5	3.4	3.2	3.3	3.4	3.5	3.3	3.4
B4301 (M)	3.4	3.0	3.1	3.2	3.2	3.1	3.0	3.2	3.1	2.9	3.0
Mean	4.1	4.0	3.7	3.8	3.7	3.6	3.6	3.6	3.5	3.6	3.6
B3857 (F)	2.3	2.0	2.1	2.0	2.0	2.2	2.1	2.0	2.0	2.1	2.1
B3516 (F)	3.8	3.4	3.6	3.8	3.9	3.5	3.6	3.6	3.7	3.6	3.6
B3928 (F)	2.8	2.5	2.4	2.5	2.5	2.6	2.5	2.6	2.5	2.5	2.4
Mean	3.0	2.6	2.6	2.8	2.8	2.7	2.8	2.7	2.7	2.7	2.7
		TNT - 1 MG/KG									
B3782 (M)	4.4	3.9	4.0	4.1	4.1	4.0	4.0	4.1	4.2	4.1	4.1
B3773 (M)	3.4	2.9	2.9	3.1	3.0	3.0	3.0	3.1	3.1	3.0	3.2
B3427 (M)	5.2	4.9	5.1	4.9	5.0	4.8	4.9	5.0	5.0	4.9	4.9
Mean	4.3	3.9	4.0	4.0	4.0	3.9	4.0	4.0	4.1	4.0	4.0
B3720 (F)	2.8	2.5	2.5	2.7	2.5	2.5	2.6	2.6	2.7	2.5	2.5
B3608 (F)	3.4	3.1	3.3	3.4	3.2	3.3	3.2	3.2	3.3	3.2	3.1
B3863 (F)	2.7	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4
Mean	3.0	2.7	2.7	2.8	2.7	2.8	2.8	2.8	2.7	2.7	2.6
		TNT - 0.1 MG/KG									

## LITTON BIOMETRICS, INC.

TABLE 1 (continued)

BODY WEIGHT  
(kilograms)

MONKEY NO. AND SEX	PRE- DRUG	WEEKS OF DRUG ADMINISTRATION										
		1	2	3	4	5	6	7	8	9	10	11
B3559 (M)	4.2	3.8	4.0	3.7	3.8	3.7	3.7	3.5	3.3	3.5	3.6	3.6
B3848 (M)	3.8	3.4	3.5	3.6	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.5
64239 (M)	4.6	4.3	4.0	4.1	4.0	3.9	3.9	4.1	4.0	3.9	3.9	4.0
Mean	4.2	3.8	3.7	3.8	3.8	3.7	3.7	3.8	3.6	3.6	3.6	3.7
B3818 (F)	2.4	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.2
B3867 (F)	4.2	3.6	3.7	3.6	3.5	3.6	3.7	3.7	3.4	3.5	3.6	3.6
B3860 (F)	2.7	2.6	2.4	2.5	2.5	2.4	2.5	2.3	2.5	2.4	2.4	2.4
Mean	3.1	2.8	2.8	2.8	2.7	2.8	2.7	2.8	2.6	2.7	2.8	2.7

## LITTON BIOMETRICS, INC.

TABLE 1 (continued)

BODY WEIGHT  
(kilograms)

MONKEY NO. AND SEX	PRE- DRUG	WEEKS OF DRUG ADMINISTRATION									
		1	2	3	4	5	6	7	8	9	10
<u>CONTROL</u>											
B4046 (M)	2.6	2.4	2.4	2.6	2.5	2.4	2.6	2.5	2.4	2.4	2.4
B4238 (M)	2.7	2.6	2.3	2.7	2.4	2.4	2.5	2.5	2.4	2.5	2.5
B3628 (M)	6.6	6.5	5.9	6.2	6.0	6.1	6.2	6.3	6.3	6.0	6.6
Mean	4.0	3.8	3.5	3.8	3.6	3.6	3.7	3.8	3.8	3.7	3.8
B3297 (F)	3.8	3.7	3.6	3.7	3.5	3.7	3.5	3.8	3.9	3.6	3.7
B4246 (F)	2.0	2.0	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.9
B3735 (F)	2.9	2.7	2.6	2.7	2.6	2.6	2.5	2.6	2.6	2.5	2.5
Mean	2.9	2.8	2.6	2.8	2.6	2.7	2.6	2.8	2.8	2.6	2.6

## LITTON BIOMETRICS, INC.

TABLE 2

## HEMATOLOGY - CYTOLOGY

RDX - 10 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (cm $_3$ )	$\text{WBC}/\mu\text{l}$ ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						My	Juv	Jan	Seg	Ly	Eo	Mo
<u>26 WEEKS PRE-DRUG</u>												
B4050 (M)	7.30	0.4	45.5	13.7	11.5	0	0	0	28	68	3	1
*B3543 (M)	6.51	0.6	46.0	13.8	17.4	0	0	0	78	22	0	0
B3406 (M)	6.10	1.6	39.5	11.6	19.9	0	0	0	85	13	1	0
Mean	6.64	0.9	43.7	13.0	16.3							
<u>24 WEEKS PRE-DRUG</u>												
B4050 (M)	6.20	0.8	42.0	12.3	8.1	0	0	0	24	74	2	0
B3543 (M)	5.36	0.6	46.5	13.6	10.3	0	0	0	42	57	0	1
B3406 (M)	5.96	1.2	38.5	10.6	10.3	0	0	0	69	30	1	0
Mean	5.84	0.9	42.3	12.2	9.6							
<u>22 WEEKS PRE-DRUG</u>												
B3543 (M)	6.63	0.4	48.5	14.0	10.4	0	0	0	35	62	3	0
R3406 (M)	6.02	0.8	38.5	10.3	11.7	0	0	0	55	44	0	1
Mean	6.32	0.6	43.5	12.2	11.1							
<u>10 WEEKS PRE-DRUG</u>												
B4050 (M)	6.80	0.1	44.5	12.5	11.4	0	0	0	51	48	1	0
B3543 (M)	6.52	0.4	49.0	14.1	11.7	0	0	0	61	37	2	0
B3406 (M)	6.36	0.4	41.0	11.0	6.7	0	0	0	37	60	1	2
Mean	6.56	0.3	44.8	12.5	9.9							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented Neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

\*\*Repeat values.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)  
HEMATOLOGY - CYTOLOGY

RDX - 1n MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. (gm%)	$\text{W.b.c.}$ ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						4 WEEKS	4 WEEKS	Juv	Ban	Sag	Ly	No
B4050 (M)	6.97	0.2	42.0	13.1	5.9	0	0	0	22	77	1	0
B3543 (M)	7.68	0.2	46.0	15.8	10.6	0	0	1	64	31	4	0
B3406 (M)	6.25	0.2	33.5	10.2	6.7	0	0	0	71	27	1	0
Mean	6.97	0.2	40.5	13.0	7.7							
						8 WEEKS	8 WEEKS					
B4050 (M)	6.40	0.3	36.5	11.3	7.7	0	0	1	46	52	1	0
B3543 (M)	6.96	0.3	43.5	13.6	9.1	0	0	0	66	29	5	0
B3406 (M)	6.49	0.2	36.0	10.0	8.4	0	0	0	65	30	2	1
Mean	6.62	0.2	38.7	11.6	8.4							
						13 WEEKS	13 WEEKS					
B4050 (M)	6.59	0.7	41.5	11.9	5.5	0	0	0	30	65	4	1
B3543 (M)	6.95	0.6	45.5	13.5	7.2	0	0	0	57	38	5	0
B3406 (M)	6.54	0.6	36.0	10.0	9.3	0	0	0	55	39	2	4
Mean	6.69	0.6	41.0	11.8	7.3							

\*My - Myelocytes; Juv - Juveniles; Ban - Bans; Seg - Segmented neutrophils; Ly - Lymphocytes;  
Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

RDX ~ 10 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%) <sup>*</sup>						
						My	Juv	Ban	Seg	Ly	Mo	Eo
<u>26 WEEKS PRE-DRUG</u>												
B3733 (F)	5.91	0.8	39.5	11.5	17.2	0	0	0	67	31	2	0
B3609 (F)	6.40	0.1	41.5	11.4	5.8	0	0	0	51	48	1	0
B3739 (F)	5.90	0.1	40.5	11.6	8.2	0	0	0	55	44	1	0
Mean	6.07	0.3	40.5	11.5	10.4							
<u>24 WEEKS PRE-DRUG</u>												
B3733 (F)	6.06	0.1	39.5	11.0	8.0	0	0	0	24	69	0	0
B3609 (F)	5.80	1.2	38.0	10.5	6.9	0	0	0	27	69	4	0
B3739 (F)	5.50	0.2	39.0	10.6	6.2	0	0	0	64	34	2	0
Mean	5.82	0.5	38.8	10.7	7.0							
<u>22 WEEKS PRE-DRUG</u>												
B3733 (F)	5.56	0.8	38.5	11.5	7.4	0	0	0	37	57	1	5
Mean	-	-	-	-	-							
<u>10 WEEKS PRE-DRUG</u>												
B3733 (F)	6.50	3.6	42.0	12.7	7.8	0	0	0	25	69	0	6
B3609 (F)	5.71	0.6	34.5	10.2	5.7	0	0	0	9	89	1	0
B3739 (F)	6.10	0.8	41.0	12.1	7.7	0	0	1	29	66	1	3
Mean	6.10	1.7	39.2	11.7	7.1							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;

Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY  
RDX - 10 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%) <sup>*</sup>						
						My	Juv	Can	Seq	Ly	No	Eo
<u>4 WEEKS</u>												
83733 {F}	6.71	0.2	38.0	11.8	4.1	0	0	0	36	60	3	1
B3609 {F}	7.22	0.2	39.5	12.1	3.4	0	0	0	55	43	2	0
B3739 {F}	6.34	0.3	36.5	11.2	7.2	0	0	0	80	18	2	0
Mean	6.76	0.2	38.0	11.7	4.9							
<u>8 WEEKS</u>												
83733 {F}	6.18	0.2	36.5	10.4	4.1	0	0	0	25	75	9	0
B3609 {F}	6.71	0.1	39.5	10.6	4.0	0	0	0	48	51	1	0
Mean	6.44	0.2	38.0	10.5	4.1							
<u>13 WEEKS</u>												
83733 {F}	6.81	0.5	39.5	11.8	5.5	0	0	0	25	68	0	7
B3609 {F}	6.47	0.6	37.5	10.6	5.3	0	0	0	34	58	3	5
Mean	6.64	0.6	38.5	11.2	5.4							

\* My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						1st Juv	2nd Juv	3rd Juv	Seq	No	EO	Ne
<u>26 WEEKS PRE-DRUG</u>												
B3952 (M)	6.53	0.4	43.5	12.0	8.6	0	0	0	19	74	6	1
B3563 (M)	6.07	1.0	39.0	11.2	12.5	0	0	0	79	21	0	0
B4093 (M)	6.52	0.1	38.5	11.5	11.6	0	0	0	39	61	0	0
Mean	6.37	0.5	40.3	11.6	10.9							
<u>24 WEEKS PRE-DRUG</u>												
B3952 (M)	7.14	0.2	43.0	11.9	8.3	0	0	0	41	56	2	0
B3563 (M)	6.09	0.8	37.5	10.3	5.2	0	0	0	48	51	1	0
B4093 (M)	6.51	0.8	39.0	11.2	6.7	0	0	0	41	57	2	0
Mean	6.58	0.3	39.8	11.1	6.7							
<u>22 WEEKS PRE-DRUG</u>												
B3563 (M)	6.26	0.8	41.5	11.4	7.6	0	0	0	28	69	0	3
Mean	-	-	-	-	-							
<u>10 WEEKS PRE-DRUG</u>												
B3952 (M)	6.73	0.6	43.5	11.7	7.7	0	0	0	45	54	1	0
B3563 (M)	6.40	0.6	40.0	11.2	6.2	0	0	0	39	59	2	0
B4093 (M)	6.65	0.1	41.5	12.0	9.1	0	0	0	42	57	1	0
Mean	6.59	0.4	41.7	11.6	7.7							

\*Mly - Myelocytes; Juv - Juveniles; Ban - Bans; Scv - Semienterobius; Ly - Leucocytes.  
Mo - Monocytes; EO - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gms%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						4 WEEKS	4 WEEKS	Juv	Ban	Ser	LY	Mo
B3952 (M)	8.10	0.4	45.0	13.2	5.9	0	0	0	46	54	0	0
B3563 (M)	6.97	0.3	39.0	11.8	10.1	0	0	0	77	22	0	1
B4093 (M)	7.11	0.8	38.0	12.9	18.1	0	0	0	74	23	3	0
Mean	7.39	0.5	40.7	12.6	11.4							
B3952 (M)	7.73	0.2	47.0	13.4	6.3	0	0	0	50	50	0	0
B3563 (M)	6.65	0.3	32.5	10.6	5.2	0	0	0	34	65	1	0
B4093 (M)	6.06	0.3	32.0	9.2	8.4	0	0	0	26	71	3	0
Mean	6.81	0.3	37.2	11.1	6.6							
B3952 (M)	7.31	0.4	41.5	11.7	8.5	0	0	0	54	41	4	1
B3563 (M)	6.77	1.0	39.5	11.3	3.7	0	0	0	27	72	0	1
B4093 (M)	7.08	0.4	39.0	11.5	10.4	0	0	0	44	55	1	0
Mean	7.05	0.6	40.0	11.5	7.5							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Ser - Segmented neutrophils; Ly - Lymphocytes;  
Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LETTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

RDX 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. (gm%)	$\text{WBC}/\text{mm}^3$ ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						My	Juv	Can	Seg	Ly	No	Eo
<u>26 WEEKS PRE-DRUG</u>												
B3599 (F)	6.10	0.1	42.5	13.1	13.6	0	0	0	64	36	0	0
B3891 (F)	6.01	0.4	36.5	10.4	6.3	0	0	0	62	38	0	0
B3718 (F)	6.51	0.1	42.5	12.0	10.5	0	0	0	72	28	0	0
Mean	6.21	0.2	40.5	11.8	10.1							
<u>24 WEEKS PRE-DRUG</u>												
B3599 (F)	5.42	1.4	41.5	12.3	10.3	0	0	0	49	50	1	0
B3891 (F)	5.77	0.4	37.5	10.3	4.0	0	0	0	57	42	1	0
B3718 (F)	5.75	0.8	38.0	10.8	7.0	0	0	0	53	47	0	0
Mean	5.65	0.9	39.0	11.1	7.1							
<u>22 WEEKS PRE-DRUG</u>												
B3599 (F)	5.87	0.8	42.5	12.5	10.5	0	0	0	30	66	2	1
B3718 (F)	6.57	0.6	40.5	11.7	8.4	0	0	0	56	43	1	0
Mean	6.22	0.7	41.5	12.1	9.4							
<u>10 WEEKS PRE-DRUG</u>												
B3599 (F)	5.53	0.6	39.0	11.1	7.9	0	0	0	34	63	2	1
B3891 (F)	5.47	1.0	36.0	10.1	4.4	0	0	0	38	60	1	0
B3718 (F)	6.89	0.1	43.5	11.7	5.6	0	0	0	42	56	0	2
Mean	5.96	0.6	39.5	11.0	6.0							

My - Myelocytes; Juv - Juveniles; Ban - Bansils; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

RDX - 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*					
					4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS	4 WEEKS
B3599 (F)	6.53	0.4	42.0	13.6	6.4	0	0	40	58	0
B3891 (F)	6.60	0.1	39.0	11.6	5.7	0	0	49	50	1
B3718 (F)	7.11	0.4	40.5	12.3	8.5	0	0	89	11	0
Mean	6.75	0.3	40.5	12.5	6.9					0
B3599 (F)	6.48	0.3	40.5	11.6	8.8	0	0	10	85	3
B3891 (F)	6.19	0.1	39.5	11.0	7.9	0	0	75	25	0
B3718 (F)	6.54	0.0	38.0	10.8	3.8	0	0	74	25	0
Mean	6.40	0.1	39.3	11.1	6.8					0
B3599 (F)	6.71	0.9	42.5	12.7	10.1	0	0	61	35	3
B3891 (F)	5.87	0.2	37.0	10.5	13.5	0	0	75	21	3
B3718 (F)	6.83	1.0	41.0	11.5	3.8	0	0	54	46	0
Mean	6.47	0.7	40.2	11.6	9.1					0

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HE. (nm)	WBC ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						Mo	Juv	Jan	Seq	Ly	No	Eo
<u>26 WEEKS PRE-DRUG</u>												
B4254 (M)	7.03	0.8	43.5	13.5	11.6	0	0	1	30	69	0	0
B3776 (M)	5.63	0.6	34.0	10.0	6.1	0	0	0	41	55	2	0
B3709 (M)	6.40	1.2	40.0	12.0	15.5	0	0	0	87	13	0	0
Mean	6.35	0.9	39.2	11.8	11.1							
<u>24 WEEKS PRE-DRUG</u>												
B4254 (M)	6.42	0.2	40.0	11.6	9.7	0	0	0	29	78	2	0
B3776 (M)	5.23	0.6	33.5	9.0	4.9	0	0	1	41	55	0	3
B3709 (M)	6.13	0.6	40.5	11.9	8.5	0	0	0	72	26	0	1
Mean	5.93	0.5	38.0	10.8	7.7							
<u>22 WEEKS PRE-DRUG</u>												
B3709 (M)	5.93	0.4	41.0	11.9	9.0	0	0	0	78	21	1	0
Mean	-	-	-	-	-							
<u>10 WEEKS PRE-DRUG</u>												
B4254 (M)	6.41	0.2	41.0	11.8	10.0	0	0	0	35	64	1	0
B3776 (M)	5.83	1.2	36.5	10.9	6.6	0	0	0	39	59	0	2
B3709 (M)	6.54	0.2	43.0	13.0	4.7	0	0	0	35	57	0	6
Mean	6.23	0.5	40.2	11.9	7.1							

\*My - Myelocytes; Juv - Juveniles; Bon - Bands; Scr - Segmented neutrophils; Ly - Lymphocytes;  
Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

RDX - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. (gm.)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						Ne	Juv	Ban	Ser	Ly	Mo	Eo
<u>4 WEEKS</u>												
B4254 (M)	7.31	1.0	42.0	13.2	4.6	0	0	0	17	81	1	0
B3776 (M)	6.97	0.4	38.5	12.4	4.9	0	0	0	39	59	0	0
B3709 (M)	6.53	0.4	37.5	12.0	10.3	0	0	0	84	14	2	0
Mean	6.94	0.6	39.3	12.5	6.6							
<u>8 WEEKS</u>												
B4254 (M)	7.63	0.6	43.5	13.6	4.4	0	0	0	21	76	3	0
B3776 (M)	6.37	0.1	37.0	10.8	4.0	0	0	0	15	81	3	0
B3709 (M)	6.47	0.1	37.0	10.4	4.9	0	0	0	58	35	6	0
Mean	6.82	0.3	39.2	11.6	4.4							
<u>13 WEEKS</u>												
B4254 (M)	7.23	0.9	42.0	12.6	4.8	0	0	0	17	84	1	2
B3776 (M)	6.32	0.8	37.0	10.3	5.7	0	0	0	25	69	1	5
B3709 (M)	6.46	0.8	37.5	10.6	4.9	0	0	0	35	63	4	2
Mean	6.67	0.8	38.8	11.2	5.1							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Ser - Segmented neutrophils; L - Large leukos;  
Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTORI BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

RDX - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	$\text{WBC.}/\text{mm}^3$ ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (*)						
						Juv	Imm	Neu	Seg	Eos	Cls	Other
<u>26 WEEKS PRE-DRUG</u>												
B3613 {F}	6.76	0.1	43.0	12.5	9.8	0	0	0	52	46	2	0
B3646 {F}	5.59	0.1	43.5	12.8	5.6	0	0	0	57	39	4	0
B3617 {F}	5.48	0.4	36.5	10.3	5.2	0	0	0	55	42	3	0
Mean	5.94	0.2	41.0	11.9	6.9	-	-	-	-	-	-	-
<u>24 WEEKS PRE-DRUG</u>												
B3613 {F}	5.99	0.8	41.5	11.6	6.6	0	0	0	28	72	0	0
B3646 {F}	4.97	0.6	40.0	11.8	3.6	0	0	1	30	65	3	0
B3617 {F}	5.50	0.8	36.5	10.2	4.3	0	0	0	33	66	0	1
Mean	5.49	0.7	39.3	11.2	4.8	-	-	-	-	-	-	-
<u>22 WEEKS PRE-DRUG</u>												
B3613 {F}	-	-	-	-	-	-	-	-	-	-	-	-
<u>10 WEEKS PRE-DRUG</u>												
B3613 {F}	5.35	0.3	36.5	10.2	11.6	0	0	1	62	36	1	0
B3646 {F}	5.78	0.6	42.5	12.5	4.1	0	0	0	36	64	0	0
B3617 {F}	5.41	0.4	36.0	9.7	4.1	0	0	0	37	63	0	0
Mean	5.51	0.4	38.3	10.8	6.6	-	-	-	-	-	-	-

\*Juv - Myelocytes; Juv - Juveniles; Bar - Basophils; Seg - Segmented neutrophils; Neu - Neutrophils;  
 Mo - Monocytes; Eo - Eosinophils; Eos - Eosinophils.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

RDX - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	WBC. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*							
					M	Juv	Imm	Seg	LY	No	E2	Sus
<u>4 WEEKS</u>												
B3613 (F)	6.45	0.6	41.0	13.1	0	0	0	39	60	1	0	0
B3646 (F)	5.91	0.6	40.0	12.3	0	0	0	66	31	2	1	0
B3617 (F)	6.48	0.6	35.5	10.5	0	0	0	26	23	0	1	0
Mean	6.28	0.6	38.8	12.0	5.7							
<u>8 WEEKS</u>												
B3613 (F)	6.61	0.3	42.5	11.4	11.3	0	0	69	31	0	0	0
B3646 (F)	5.90	0.1	38.0	10.8	3.5	0	0	34	59	5	1	0
B3617 (F)	5.59	0.2	32.0	10.4	7.3	0	0	67	28	4	1	0
Mean	6.03	0.2	37.5	10.9	7.4							
<u>13 WEEKS</u>												
B3613 (F)	7.28	1.3	44.5	12.6	7.3	0	0	55	43	2	0	0
B3646 (F)	6.34	1.1	42.5	12.1	4.7	0	0	40	56	3	1	0
B3617 (F)	6.07	0.4	36.5	10.0	5.0	0	0	44	56	0	0	0
Mean	6.56	0.9	41.2	11.6	5.7							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segments; Imm - Intermediate cells;  
 Mo - Monocytes; E.C - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

THT - 1 MG/KG

HORSEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	H.G. (%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
					Juv	Can	Seg	Ly	Mo	Eo	S
<u>26 WEEKS PRE-DRUG</u>											
B3697 (M)	7.04	0.4	42.0	12.3	10.8	0	0	60	40	0	0
B3775 (M)	5.58	0.4	39.0	11.7	11.7	0	0	56	44	0	0
B4301 (M)	5.65	0.4	41.0	12.5	7.4	0	0	36	64	0	0
Mean	6.09	0.4	41.0	12.2	10.0						
<u>24 WEEKS PRE-DRUG</u>											
B3697 (M)	6.41	0.4	42.5	12.5	4.7	0	0	55	44	1	0
B3775 (M)	5.93	6.4	40.0	11.8	9.2	0	0	69	29	0	0
B4301 (M)	5.46	0.2	39.0	11.4	9.5	0	0	39	61	0	0
Mean	5.93	2.3	40.5	11.9	7.8						
<u>22 WEEKS PRE-DRUG</u>											
B3697 (M)	6.63	1.2	39.0	11.3	5.5	0	0	53	44	2	0
B3775 (M)	6.45	0.8	42.5	12.8	6.8	0	0	50	49	1	0
B4301 (M)	5.25	0.1	39.5	11.2	5.7	0	0	51	45	3	1
Mean	6.11	0.7	40.3	11.8	6.0						
<u>10 WEEKS PRE-DRUG</u>											
B3697 (M)	6.63										
B3775 (M)	6.45										
B4301 (M)	5.25										

\*My = Myelocytes; Juv = Juveniles; Ban = Bands; Seg = Segmented neutro hills; Ly = Lymphocytes;  
Mo = Monocytes; Eo = Eosinophils; Bas = Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HC ( $\text{mm}^3$ ) ( $\times 10^{-3}/\text{mm}^3$ )	DIFFERENTIAL (*)							
					My	No	Eo	Mo	Ly	Se	Ne	
<u>4 WEEKS</u>												
B3697 (M)	7.35	0.6	40.5	13.0	5.1	0	0	0	67	30	2	1
B3775 (M)	6.22	0.8	38.5	12.5	10.1	0	0	0	67	32	1	0
B4301 (M)	6.07	0.3	38.0	11.7	3.1	0	0	0	37	63	0	0
Mean	6.55	0.5	39.0	12.4	6.1							
<u>8 WEEKS</u>												
B3697 (M)	6.52	0.3	39.5	10.9	8.6	0	0	0	77	23	0	0
B3775 (M)	6.03	0.2	37.0	10.8	6.8	0	0	0	59	41	0	0
B4301 (M)	5.65	0.2	37.5	11.0	11.7	0	0	0	87	13	0	0
Mean	6.07	0.2	38.0	10.9	9.0							
<u>13 WEEKS</u>												
B3697 (M)	7.05	0.9	43.0	11.8	7.0	0	0	0	71	25	3	0
B3775 (M)	6.74	1.6	40.0	11.8	9.2	0	0	0	72	27	1	0
B4301 (M)	4.93	1.6	31.5	9.3	5.7	0	0	0	37	63	0	0
Mean	6.24	1.4	38.2	11.0	7.3							

\* My - Myelocytes; Juv - Juveniles; Bar - Barrels; Br - Binucleated; Centro hilis; L - Large vesicles;  
 No - Normocytes; Eo - Eosinophils; Mo - Macrophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	H.G.C. ( $\mu\text{m}^3$ ) ( $\times 10^{-1}/\text{mm}^3$ )	DIFFERENTIAL (%)*								
					Juv	Juv	Juv	Seg	Seg	Mo	Mo	EO	EO
<u>26 WEEKS PRE-DRUG</u>													
83857 (F)	6.31	0.0	41.5	12.4	7.5	0	0	0	52	47	1	0	0
B3516 (F)	5.97	0.1	39.5	11.1	6.1	0	0	0	37	63	0	0	0
B3928 (F)	5.43	0.4	35.5	10.3	21.2	0	0	0	74	23	3	0	0
Mean	5.90	0.2	38.8	11.3	11.6								
<u>24 WEEKS PRE-DRUG</u>													
83857 (F)	6.01	0.1	39.0	11.0	4.7	0	0	0	14	86	0	0	0
B3516 (F)	5.12	2.6	37.0	10.2	8.2	0	0	0	23	74	0	3	0
B3928 (F)	5.59	0.6	38.0	10.8	8.2	0	0	0	50	46	3	1	0
Mean	5.57	1.1	38.0	10.7	7.0								
<u>22 WEEKS PRE-DRUG</u>													
B3928 (F)	5.77	0.6	40.5	11.7	10.7	0	0	0	47	51	2	0	0
Mean	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>10 WEEKS PRE-DRUG</u>													
83857 (F)	6.30	0.1	40.0	11.1	4.1	0	0	0	14	83	2	1	0
B3516 (F)	5.95	0.4	38.5	10.7	7.4	0	0	0	18	21	1	3	0
B3928 (F)	5.56	0.1	38.5	10.3	9.4	0	0	0	42	56	1	1	0
Mean	5.94	0.2	39.0	10.7	7.0								

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; EO - Eosinophils;  
 Mo - Monocytes; EO - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	WBC ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIATION (%)*					
					4 WEEKS				8 WEEKS	
B3857 (F)	6.45	0.4	37.5	11.5	3.7	0	0	32	61	5
B3516 (F)	6.33	0.4	37.5	10.9	4.5	0	0	27	70	2
B3928 (F)	6.40	0.4	37.5	11.4	8.7	0	0	53	43	0
Mean	6.39	0.4	37.5	11.3	5.6					2
B3857 (F)	6.74	0.4	39.0	11.6	10.9	0	0	67	31	2
B3516 (F)	6.54	0.4	36.5	10.0	8.4	0	0	54	44	1
B3928 (F)	6.40	0.2	38.5	12.3	12.2	0	0	77	21	2
Mean	6.56	0.3	38.0	11.3	10.5					0
B3857 (F)	6.69	0.3	41.0	11.5	5.2	0	0	21	69	2
B3516 (F)	6.39	1.2	39.5	10.9	5.8	0	0	22	74	3
B3928 (F)	6.51	0.4	38.5	11.0	10.0	0	0	40	55	5
Mean	6.53	0.6	39.7	11.1	7.0					0

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

THT - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (*)							
					H	Juv	Can	Seq	Ly	Mo	Eo	Dis
<u>26 WEEKS PRE-DRUG</u>												
B3782 (M)	5.20	0.4	41.5	12.6	3.0	0	0	40	60	0	0	0
B3773 (M)	5.56	0.6	40.0	11.4	11.1	0	0	75	24	0	1	0
B3427 (M)	5.84	0.6	45.5	13.1	12.7	0	0	44	54	2	0	0
Mean	5.53	0.5	42.3	12.4	8.9							
<u>24 WEEKS PRE-DRUG</u>												
B3782 (M)	5.12	0.4	39.5	12.6	4.5	0	0	62	36	1	1	0
B3773 (M)	6.33	0.1	41.0	11.6	4.9	0	0	41	57	1	1	0
B3427 (M)	6.15	0.6	44.0	12.1	8.6	0	0	37	59	3	1	0
Mean	5.87	0.4	41.5	12.1	6.0							
<u>22 WEEKS PRE-DRUG</u>												
B3773 (M)	5.93	0.6	39.5	11.3	8.8	0	0	41	57	1	0	1
Mean	-	-	-	-	-							
<u>10 WEEKS PRE-DRUG</u>												
B3782 (M)	5.90	0.2	41.0	12.2	5.0	0	0	35	64	1	0	0
B3773 (M)	6.10	0.6	41.0	11.2	6.1	0	0	23	77	0	1	0
B3427 (M)	6.03	0.6	44.0	12.7	7.8	0	0	23	75	1	1	0
Mean	6.01	0.5	42.0	12.0	6.3							

\*My - Myelocytes; Juv - Juveniles; Ban - Bans; Ser - Semimented neutrophils; Un - Uncoated neutrophils;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						4 WEEKS	Juv	Jan	Seq	LY	Mo	E2
B3782 (M)	6.00	0.8	40.5	13.0	5.2	0	0	1	74	25	0	0
B3773 (M)	6.21	0.3	39.0	11.7	4.5	0	0	0	48	51	0	0
B3427 (M)	6.61	0.2	43.5	14.1	4.9	0	0	0	38	61	1	0
Mean	6.27	0.4	41.0	12.9	4.9							
						8 WEEKS						
B3782 (M)	6.00	0.1	36.5	12.3	4.1	0	0	0	70	29	1	0
B3773 (M)	6.50	0.3	39.0	10.8	6.3	0	0	0	30	65	5	0
B3427 (M)	6.87	0.4	42.0	11.2	9.7	0	0	0	37	59	2	1
Mean	6.46	0.3	39.2	11.4	6.7							
						13 WEEKS						
B3782 (M)	5.87	1.0	40.5	11.9	4.3	0	0	0	39	57	3	1
B3773 (M)	6.42	0.7	41.5	11.2	4.0	0	0	0	32	62	3	0
B3427 (M)	6.64	0.6	42.0	12.3	6.5	0	0	0	43	55	1	1
Mean	6.31	0.8	41.3	11.8	4.9							

\*Mg - Megalocytes; Juv - Juveniles; Ban - Bansals; Serr - Selected neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	WBC. ( $\mu\text{m}^3$ )	WBC. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (*)					
					LY	JUV	SEG	MON	EO	GRAN
<u>26 WEEKS PRE-DRUG</u>										
B3720 {F}	5.55	0.8	38.0	10.9	23.7	0	0	44	55	0
B3608 {F}	5.27	0.4	37.5	12.1	20.6	0	0	91	9	0
B3863 {F}	5.90	0.1	40.0	11.7	6.7	0	0	33	66	1
Mean	5.57	0.4	38.5	11.6	17.0			0	0	0
<u>24 WEEKS PRE-DRUG</u>										
B3720 {F}	6.03	0.2	38.5	10.9	5.8	0	0	37	60	2
B3608 {F}	4.50	0.6	36.0	11.2	3.5	0	0	17	81	1
B3863 {F}	5.48	0.2	38.0	10.7	6.2	0	0	37	57	4
Mean	5.34	0.3	37.5	10.9	5.2			0	0	0
<u>22 WEEKS PRE-DRUG</u>										
B3720 {F}	5.27	0.4	37.0	10.4	6.0	0	0	26	68	2
B3608 {F}	5.26	0.4	39.0	12.2	6.0	0	0	30	69	1
Mean	5.26	0.4	38.0	11.3	6.0			0	0	0
<u>10 WEEKS PRE-DRUG</u>										
B3720 {F}	6.59	0.2	43.0	12.6	4.8	0	0	40	56	1
B3608 {F}	5.13	0.6	38.5	11.2	5.9	0	0	32	67	0
B3863 {F}	5.36	0.8	36.0	10.6	5.6	0	0	36	56	4
Mean	5.69	0.5	39.2	11.5	5.4			0	0	0

\*) LY - Myelocytes; JUV - Juveniles; BAN - Bands; Seg - Segmented neutrophils; LV - Lymphocytes;  
 MO - Monocytes; EO - Eosinophils; BAS - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

THI - 0.1 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HGB. ( $\text{gm}/\text{dl}$ )	HGB.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (*)						
						My	Juv	Can	Seg	Ly	Eo	Bas
<u>4 WEEKS</u>												
B3720 (F)	6.50	0.4	41.0	11.8	5.5	0	0	0	22	28	0	0
B3608 (F)	5.25	0.4	36.0	11.7	9.6	0	0	0	71	28	0	1
B3863 (F)	6.61	0.2	41.5	13.0	1.8	0	0	0	29	70	1	0
Mean	6.12	0.3	39.5	12.2	5.6							
<u>8 WEEKS</u>												
B3720 (F)	6.41	0.2	37.0	10.6	8.6	0	0	0	63	33	2	2
B3608 (F)	5.42	0.2	37.0	11.7	12.1	0	0	0	57	12	0	1
B3863 (F)	6.13	0.2	39.5	11.4	5.1	0	0	0	28	67	3	2
Mean	5.99	0.2	37.8	11.2	8.6							
<u>13 WEEKS</u>												
B3720 (F)	6.65	0.4	41.0	11.4	4.7	0	0	0	42	54	4	0
B3608 (F)	5.63	0.5	39.5	11.8	4.4	0	0	0	20	72	4	4
B3863 (F)	6.00	0.6	37.0	11.6	6.6	0	0	0	46	48	5	1
Mean	6.09	0.5	39.2	11.6	5.2							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 0.02 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. ( $\text{gm}/\text{dl}$ )	W.b.c. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						Ivy	Juv	Jan	Seq	Ly	No	Eo
<u>26 WEEKS PRE-DRUG</u>												
B3559 (M)	5.68	0.6	40.5	11.2	9.9	0	0	0	55	45	0	0
B3848 (M)	5.50	0.1	38.5	11.8	11.6	0	0	0	31	68	0	1
B4239 (M)	5.90	0.4	39.5	11.8	9.0	0	0	0	42	56	0	2
Mean	5.69	0.4	39.5	11.6	10.2							
<u>24 WEEKS PRE-DRUG</u>												
B3559 (M)	5.90	0.6	42.0	11.1	4.6	0	0	0	13	79	3	5
B3848 (M)	5.40	0.4	37.5	11.1	7.6	0	0	0	31	65	2	3
B4239 (M)	5.66	0.8	38.5	11.2	4.4	0	0	0	25	71	3	1
Mean	5.65	0.6	39.3	11.1	5.5							
<u>22 WEEKS PRE-DRUG</u>												
B3559 (M)	-	-	-	-	-	-	-	-	-	-	-	-
<u>10 WEEKS PRE-DRUG</u>												
B3559 (M)	5.75	0.4	42.0	11.5	5.8	0	0	0	2	89	2	7
B3848 (M)	5.82	0.1	41.5	11.9	8.1	0	0	0	14	83	2	1
B4239 (M)	6.35	0.1	41.0	11.8	7.0	0	0	0	29	70	0	1
Mean	5.97	0.2	41.5	11.7	7.0							

\*Ivy - Myelocytes; Juv - Juvenilles; Ban - Bansis; Sis - Syncytialis; Eo - Eosinophils; Lys - Lymphocytes;  
Mo - Monocytes; No - Neutrophils; Bas - Basophils.

## LITTON SIGNETICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 0.02 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	HCT. (%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*		
				Imm.	Juv.	Old
<u>4 WEEKS</u>						
B3559 (M)	6.29	1.0	39.0	11.6	3.9	0
B3848 (M)	6.74	0.1	40.5	13.4	5.6	0
B4239 (M)	6.54	0.6	40.5	12.0	6.2	0
Mean	6.52	0.6	40.0	12.3	5.2	0
<u>8 WEEKS</u>						
B3559 (M)	6.13	1.8	36.5	10.4	4.0	0
B3848 (M)	5.96	0.4	41.5	12.6	6.1	0
B4239 (M)	6.30	0.3	37.0	11.1	5.1	0
Mean	6.13	0.8	38.3	11.4	5.1	0
<u>13 WEEKS</u>						
B3559 (M)	6.78	0.9	42.5	11.5	7.2	0
B3648 (M)	6.23	0.4	40.0	12.0	10.2	0
B4239 (M)	6.44	0.4	39.0	11.5	6.6	0
Mean	6.48	0.6	40.5	11.7	8.0	0

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Sanc - Segmented neutrophils; Lym - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

TNT - 0.02 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	WBC. ( $\times 10^3/\text{mm}^3$ )	TNT - 0.02 MG/KG				DIFFERENTIAL (%)*				
				Pre	Juv	Min	Max	My	Seg	Eo	Sus	Other
<u>26 WEEKS PRE-DRUG</u>												
B3818 {F}	6.12	0.2	40.0	12.2	16.3	0	0	30	67	0	3	0
B3867 {F}	6.72	0.8	43.0	13.7	5.9	0	0	58	42	0	0	0
B3860 {F}	5.48	0.4	41.0	12.5	19.9	0	0	69	28	3	0	0
Mean	6.11	0.5	41.3	12.8	14.0							
<u>24 WEEKS PRE-DRUG</u>												
B3818 {F}	6.10	0.8	47.5	11.3	9.0	0	0	34	64	0	2	0
B3867 {F}	7.03	0.4	44.0	13.1	8.5	0	0	66	31	3	0	0
B3860 {F}	5.14	0.8	40.0	11.0	8.6	0	0	29	70	1	0	0
Mean	6.09	0.7	41.8	11.8	8.7							
<u>22 WEEKS PRE-DRUG</u>												
B3818 {F}	6.33	0.4	45.0	12.9	11.0	0	0	32	64	1	3	0
B3860 {F}	6.84	1.0	44.0	13.2	6.7	0	0	32	67	1	0	0
Mean	6.58	0.7	44.5	13.1	8.8							
<u>10 WEEKS PRE-DRUG</u>												
B3818 {F}	6.20	0.3	40.0	11.2	15.1	0	0	28	66	0	6	0
B3867 {F}	5.90	0.4	43.0	11.7	14.3	0	0	44	55	1	0	0
B3860 {F}	6.84	0.1	48.0	13.9	5.1	0	0	19	76	4	1	0
Mean	6.31	0.3	43.7	12.3	11.5							

\* My - Myelocytes; Juv - Juveniles; Ban - Bansils; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Sus - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

THT - 0.02 MG/KG

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*								
				4 WEEKS	Juv	Jan	Sep	LY	Mo	L2	S1	Other
B3818 {F}	6.76	0.6	40.0	13.4	9.4	0	0	0	37	54	2	0
B3867 {F}	6.57	0.5	42.5	13.0	15.8	0	0	0	75	25	0	0
B3860 {F}	7.16	0.2	41.5	13.4	5.4	0	0	0	61	37	2	0
Mean	6.83	0.5	41.3	13.3	10.2							
B3818 {F}	6.75	0.3	41.0	11.8	11.7	0	0	0	24	69	5	2
B3867 {F}	6.25	0.6	42.5	14.0	8.0	0	0	0	68	32	0	0
B3860 {F}	6.45	0.6	39.0	11.5	5.5	0	0	0	39	56	3	2
Mean	6.48	0.5	40.8	12.4	8.4							
B3818 {F}	6.71	0.6	42.5	11.9	15.9	0	0	0	62	33	4	1
B3867 {F}	6.23	0.6	43.5	12.2	12.0	0	0	0	72	24	4	0
B3860 {F}	6.23	0.6	40.0	12.3	7.3	0	0	0	71	27	2	0
Mean	6.39	0.6	42.0	12.1	11.7							

\*Mv - Myelocytes; Juv - Juveniles; Ban - bands; Eo - eosinophils; Mo - monocytes; Lo - eosinophilic; Bas - basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

## CONTROL

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						My	Juv	Ban	Seq	Ly	No	Eo
<u>26 WEEKS PRE-DRUG</u>												
B4046 (M)	6.74	0.2	40.5	12.6	5.1	0	0	1	14	82	2	1
B4238 (M)	6.99	0.4	45.0	13.8	9.8	0	0	0	17	82	1	0
B3628 (M)	5.85	0.8	40.0	12.3	15.5	0	0	0	63	36	1	0
Mean	6.53	0.5	41.8	13.0	10.1							
<u>24 WEEKS PRE-DRUG</u>												
B4046 (M)	6.40	0.1	40.0	12.7	7.4	0	0	0	33	67	0	0
B4238 (M)	6.06	0.4	38.0	11.6	7.7	0	0	0	27	73	0	0
B3628 (M)	5.69	0.8	39.5	11.8	5.3	0	0	0	45	53	2	0
Mean	6.05	0.4	39.2	12.0	6.8							
<u>22 WEEKS PRE-DRUG</u>												
B3628 (M)	5.94	0.6	43.5	12.9	12.0	0	0	0	75	23	2	0
Mean	-	-	-	-	-							
<u>10 WEEKS PRE-DRUG</u>												
B4046 (M)	5.10	0.1	38.6	11.5	9.9	0	0	0	44	55	1	0
B4238 (M)	6.46	0.8	41.0	12.2	7.9	0	0	0	34	65	1	0
B3628 (M)	6.23	0.1	41.0	11.8	7.8	0	0	0	39	59	1	0
Mean	6.26	0.3	40.0	11.8	8.5							

\* My - Myelocytes; Juv - Juvenile; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Ho - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

## CONTROL

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						4 WEEKS	Juv	Ban	Seg	LY	No	Eo
B4046 (M)	7.01	0.4	40.5	13.1	6.3	0	0	0	19	76	4	1
B4238 (M)	7.17	0.4	43.0	12.8	10.0	0	0	0	66	34	0	0
B3628 (M)	7.08	0.6	42.0	14.2	5.8	0	0	0	48	51	1	0
Mean	7.09	0.5	41.8	12.4	7.4							
						8 WEEKS						
B4046 (M)	6.78	0.4	39.0	12.8	6.3	0	0	0	15	84	1	0
B4238 (M)	5.23	2.2	35.0	10.6	6.4	0	0	0	38	54	4	0
B3628 (M)	6.74	0.4	41.5	12.6	7.1	0	0	0	30	70	0	0
Mean	6.45	1.0	38.5	12.0	6.5							
						13 WEEKS						
B4046 (M)	6.92	0.6	40.5	12.4	6.2	0	0	0	25	74	1	0
B4238 (M)	7.24	0.5	43.5	12.9	10.7	0	0	1	48	45	6	0
B3628 (M)	6.47	2.4	40.5	12.1	5.6	0	0	0	38	62	0	0
Mean	6.88	1.2	41.5	12.5	7.5							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 No - Monocytes; Eo - Eosinophils; Bas - Basophils.

## LITTON BIOMETRICS, INC.

TABLE 2 (continued)

## HEMATOLOGY - CYTOLOGY

## CONTROL

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	Hb. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						My	Juv	Jan	Seq	Ly	Mo	Eo
<u>26 WEEKS PRE-DRUG</u>												
83297 {F}	6.13	0.1	42.0	12.8	7.8	0	0	0	29	71	0	0
B4246 {F}	5.19	0.4	32.5	9.3	24.2	0	0	0	88	6	0	0
B3735 {F}	5.88	1.8	35.0	10.4	13.3	0	0	0	25	71	2	0
Mean	5.73	0.8	36.5	10.8	15.1							
<u>24 WEEKS PRE-DRUG</u>												
83297 {F}	5.21	1.4	37.0	11.0	6.2	0	0	0	40	58	0	0
B4246 {F}	5.23	0.6	31.0	8.2	5.1	0	0	0	56	41	3	0
B3735 {F}	5.66	0.7	41.0	11.0	8.1	0	0	0	36	56	2	5
Mean	5.37	0.8	36.3	10.0	6.5							
<u>22 WEEKS PRE-DRUG</u>												
B4246 {F}	5.88	0.4	34.5	9.9	5.3	0	0	0	65	29	4	2
B3735 {F}	6.03	0.8	39.0	10.9	7.4	0	0	0	30	66	3	1
Mean	5.96	0.6	35.8	10.4	6.4							
<u>10 WEEKS PRE-DRUG</u>												
83297 {F}	5.37	0.8	39.5	11.4	6.9	0	0	0	40	57	2	0
B4246 {F}	5.49	0.1	34.0	9.6	4.8	0	0	0	54	46	0	0
B3735 {F}	6.19	0.4	37.5	10.8	10.2	0	0	0	65	35	0	0
Mean	5.68	0.4	37.0	10.6	7.3							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seq - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETRICS, INC.

TABLE 2 (continued)

HEMATOLOGY - CYTOLOGY

CONTROL

MONKEY NO. AND SEX	R.B.C. ( $\times 10^6/\text{mm}^3$ )	RETIC. (%)	HCT. (%)	HB. (gm%)	W.B.C. ( $\times 10^3/\text{mm}^3$ )	DIFFERENTIAL (%)*						
						My	Juv	Jan	Seg	LY	Mo	Eo
<u>4 WEEKS</u>												
B3297 {F}	5.93	0.4	38.0	12.0	9.1	0	0	0	57	40	1	2
B4246 {F}	6.22	0.4	34.0	11.0	4.9	0	0	0	51	48	1	0
B3735 {F}	7.28	0.8	40.5	13.3	9.7	0	0	0	52	46	1	0
Mean	6.48	0.5	37.5	12.1	7.9							
<u>8 WEEKS</u>												
B3297 {F}	5.37	1.2	35.5	10.7	5.7	0	0	0	47	47	4	2
B4246 {F}	6.23	0.3	32.5	9.0	6.6	0	0	0	33	61	6	0
B3735 {F}	6.85	0.2	38.0	10.8	3.1	0	0	0	37	58	0	5
Mean	6.15	0.6	35.3	10.2	5.1							
<u>13 WEEKS</u>												
B3297 {F}	5.97	2.1	38.0	11.5	5.8	0	0	0	58	34	6	1
B4246 {F}	6.63	0.6	35.5	10.1	8.7	0	0	0	56	43	0	1
B3735 {F}	6.99	0.6	39.0	11.1	12.2	0	0	0	79	21	0	0
Mean	6.53	1.1	37.5	10.9	9.2							

\*My - Myelocytes; Juv - Juveniles; Ban - Bands; Seg - Segmented neutrophils; Ly - Lymphocytes;  
 Mo - Monocytes; Eo - Eosinophils; Bas - Basophils.

LITTON BIOMETICS, INC.

TABLE 3  
HEMATOLOGY - HEINZ BODIES

MONKEY NO. AND SEX	WEEKS OF DRUG ADMINISTRATION			
	Pre	4	8	13
<u>RDX - 10 MG/KG</u>				
B4050 (M)	Neg.	Neg.	Neg.	Neg.
B3543 (M)	Neg.	Neg.	Neg.	Neg.
B3406 (M)	Neg.	Neg.	Neg.	Neg.
B3733 (F)	Neg.	Neg.	Neg.	Neg.
B3609 (F)	Neg.	Neg.	Neg.	Neg.
B3739 (F)	Neg.	Neg.	Dead	Dead
<u>RDX - 1 MG/KG</u>				
B3952 (M)	Neg.	Neg.	Neg.	Neg.
B3563 (M)	Neg.	Neg.	Neg.	Neg.
B4093 (M)	Neg.	Neg.	Neg.	Neg.
B3599 (F)	Neg.	Neg.	Neg.	Neg.
B3891 (F)	Neg.	Neg.	Neg.	Neg.
B3718 (F)	Neg.	Neg.	Neg.	Neg.
<u>RDX - 0.1 MG/KG</u>				
B4254 (M)	Neg.	Neg.	Neg.	Neg.
B3776 (M)	Neg.	Neg.	Neg.	Neg.
B3709 (M)	Neg.	Neg.	Neg.	Neg.
B3613 (F)	Neg.	Neg.	Neg.	Neg.
B3646 (F)	Neg.	Neg.	Neg.	Neg.
B3617 (F)	Neg.	Neg.	Neg.	Neg.

LITTON BIONETICS, INC.

TABLE 3 (continued)  
HEMATOLOGY - HEINZ BODIES

MONKEY NO. AND SEX	WEEKS OF DRUG ADMINISTRATION			
	Pre	4	8	13
<u>TNT - 1 MG/KG</u>				
B3697 (M)	Neg.	Neg.	Neg.	Neg.
B3775 (M)	Neg.	Neg.	Neg.	Neg.
B4301 (M)	Neg.	Neg.	Neg.	Neg.
B3857 (F)	Neg.	Neg.	Neg.	Neg.
B3516 (F)	Neg.	Neg.	Neg.	Neg.
B3928 (F)	Neg.	Neg.	Neg.	Neg.
<u>TNT - 0.1 MG/KG</u>				
B3782 (M)	Neg.	Neg.	Neg.	Neg.
B3773 (M)	Neg.	Neg.	Neg.	Neg.
B3427 (M)	Neg.	Neg.	Neg.	Neg.
B3720 (F)	Neg.	Neg.	Neg.	Neg.
B3608 (F)	Neg.	Neg.	Neg.	Neg.
B3863 (F)	Neg.	Neg.	Neg.	Neg.
<u>TNT - 0.02 MG/KG</u>				
B3559 (M)	Neg.	Neg.	Neg.	Neg.
B3848 (M)	Neg.	Neg.	Neg.	Neg.
B4239 (M)	Neg.	Neg.	Neg.	Neg.
B3818 (F)	Neg.	Neg.	Neg.	Neg.
B3867 (F)	Neg.	Neg.	Neg.	Neg.
B3860 (F)	Neg.	Neg.	Neg.	Neg.

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TABLE 3 (continued)  
HEMATOLOGY - HEINZ BODIES

<u>MONKEY NO. AND SEX</u>	<u>WEEKS OF DRUG ADMINISTRATION</u>			
	<u>Pre</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>CONTROL</u>				
B4046 (M)	Neg.	Neg.	Neg.	Neg.
B4238 (M)	Neg.	Neg.	Neg.	Neg.
B3628 (M)	Neg.	Neg.	Neg.	Neg.
B3297 (F)	Neg.	Neg.	Neg.	Neg.
B4246 (F)	Neg.	Neg.	Neg.	Neg.
B3735 (F)	Neg.	Neg.	Neg.	Neg.

TABLE 4  
HEMATOLOGY - METHEMOGLOBIN  
(% saturation)

<u>MONKEY NO. AND SEX</u>	<u>PRE-DRUG</u>		<u>WEEKS OF DRUG ADMINISTRATION</u>		
	<u>26 Wks</u>	<u>10 Wks</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>RDX - 10 MG/KG</u>					
B4050 (M)	8.6*	12.0*	8.4*	10.9*	0.0*
B3543 (M)	0.0	2.3	3.1	4.1*	0.0*
B3406 (M)	0.0	0.0	0.0	0.0	0.0
Mean	2.9	4.8	3.8	5.0	0.0
B3733 (F)	0.0	1.8*	0.0	0.0*	0.0
B3609 (F)	0.0	0.0	4.5	11.0*	3.6
B3739 (F)	0.0	2.9	4.9	Dead	Dead
Mean	0.0	1.6	3.1	5.5	1.8
<u>RDX - 1 MG/KG</u>					
B3952 (M)	0.0*	0.0	14.0*	0.0*	0.0*
B3563 (M)	0.0	0.0	0.0*	9.4*	0.0*
B4093 (M)	0.0	3.1	7.9*	7.4*	0.0
Mean	0.0	1.0	7.3	5.6	0.0
B3599 (F)	0.0	0.0	0.0	0.0	0.0*
B3891 (F)	0.0	0.0	0.0	0.0	0.0*
B3718 (F)	0.0	0.0	0.0	0.0*	1.3
Mean	0.0	0.0	0.0	0.0	0.4
<u>RDX - 0.1 MG/KG</u>					
B4254 (M)	0.0	0.0	1.8	1.5*	2.3
B3776 (M)	0.0	0.0	0.0	0.0*	0.0
B3709 (M)	0.0	0.0	0.0*	0.0*	1.3
Mean	0.0	0.0	0.6	0.5	1.2
B3613 (F)	0.0	9.6*	0.0	13.7*	0.0*
B3646 (F)	0.0	0.0	0.0*	1.7*	0.0*
B3617 (F)	0.0	2.2	0.0	0.0*	0.0
Mean	0.0	3.9	0.0	5.1	0.0

\*Repeat values.

TABLE 4 (continued)

HEMATOLOGY - METHEMOGLOBIN  
(% saturation)

<u>MONKEY NO. AND SEX</u>	<u>PRE-DRUG</u>		<u>WEEKS OF DRUG ADMINISTRATION</u>		
	<u>26 Wks</u>	<u>10 Wks</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>TNT - 1 MG/KG</u>					
B3697 (M)	0.0	12.6*	17.6*	20.4*	9.5*
B3775 (M)	0.0	0.0	0.0	0.9*	0.0*
B4301 (M)	0.0	0.0	0.0	12.2*	0.0
Mean	0.0	4.2	5.9	11.2	3.2
B3857 (F)	0.0	0.0	0.0	2.1	0.0
B3516 (F)	0.0	4.9*	13.4*	3.5*	4.2*
B3928 (F)	0.0	0.0	0.0	12.2*	0.0*
Mean	0.0	1.6	4.5	5.9	1.4
<u>TNT - 0.1 MG/KG</u>					
B3782 (M)	0.0	0.0	6.0	0.0*	0.0*
B3773 (M)	0.0	0.0	0.0	3.6	0.0*
B3427 (M)	0.0	0.0	0.0	0.0*	0.0
Mean	0.0	0.0	2.0	1.2	0.0
B3720 (M)	0.0	0.0	0.0	0.0*	0.0*
B3608 (M)	0.0	0.0	0.0	4.4*	0.0
B3863 (M)	0.0	2.3*	11.1*	22.1*	1.7
Mean	0.0	0.8	3.7	8.8	0.6
<u>TNT - 0.02 MG/KG</u>					
B3559 (M)	0.0	1.5	0.0	1.9	0.0
B3848 (M)	0.0	0.0	4.6	0.0*	0.0*
B4239 (M)	0.0	3.5	2.2	0.0*	1.7
Mean	0.0	1.7	2.3	0.6	0.6
B3818 (F)	0.0*	12.4*	12.1*	11.6*	3.3*
B3867 (F)	0.0	3.9*	2.9	5.8*	0.0*
B3860 (F)	0.0	0.0	0.0	1.8	0.0
Mean	0.0	5.4	5.0	6.4	1.3

\*Repeat values.

TABLE 4 (continued)

HEMATOLOGY - METHEMOGLOBIN  
(% saturation)

<u>MONKEY NO. AND SEX</u>	<u>PRE-DRUG</u>		<u>WEEKS OF DRUG ADMINISTRATION</u>		
	<u>26 Wks</u>	<u>10 Wks</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>CONTROL</u>					
B4046 (M)	0.0	0.0	1.2	11.3*	0.4
B4238 (M)	0.0	6.7*	9.4*	14.5*	10.5*
B3628 (M)	0.0	3.0	9.0*	15.1*	0.0*
Mean	0.0	3.2	6.5	13.6	3.6
B3297 (F)	0.0	0.0	0.0	6.3*	0.0*
B4246 (F)	0.0	0.0	0.0	0.0*	0.0
B3735 (F)	9.9*	0.0	0.0	4.5	0.0*
Mean	3.3	0.0	0.0	3.6	0.0

\*Repeat values.

TABLE 5  
HEMATOLOGY - RED CELL FRAGILITY  
RDX - 10 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B4050 (M)	Max.	.30	100
	Min.	.50	1.3
B3543 (M)	Max.	.30	100
	Min.	.55	1.9
B3406 (M)	Max.	.30	100
	Min.	.60	1.5
Mean	Max.	.30	100
	Min.	.55	1.6
<u>24 WEEKS PRE-DRUG</u>			
B4050 (M)	Max.	.30	100
	Min.	.50	1.4
B3543 (M)	Max.	.35	100
	Min.	.65	1.3
*B3406 (M)	Max.	.30	100
	Min.	.55	8.0
Mean	Max.	.32	100
	Min.	.57	3.6
<u>10 WEEKS PRE-DRUG</u>			
B4050 (M)	Max.	.30	100
	Min.	.50	1.6
B3543 (M)	Max.	.30	100
	Min.	.55	1.1
B3406 (M)	Max.	.35	100
	Min.	.55	4.3
Mean	Max.	.32	100
	Min.	.53	2.3

\*Repeat values.

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 10 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B4050 (M)	Max.	.30	100
	Min.	.50	5.0
B3543 (M)	Max.	.30	100
	Mir.	.55	2.0
B3406 (M)	Max.	.30	100
	Min.	.50	2.0
Mean	Max.	.30	100
	Min.	.52	3.0
<u>8 WEEKS</u>			
*B4050 (M)	Max.	.30	100
	Min.	.50	1.6
B3543 (M)	Max.	.30	100
	Min.	.55	1.2
B3406 (M)	Max.	.35	100
	Min.	.50	11.1
Mean	Max.	.32	100
	Min.	.52	4.6
<u>13 WEEKS</u>			
B4050 (M)	Max.	.30	100
	Min.	.65	1.4
B3543 (M)	Max.	.35	100
	Min.	.55	2.5
B3406 (M)	Max.	.30	100
	Min.	.55	1.6
Mean	Max.	.32	100
	Min.	.58	1.8

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 10 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3733 (F)	Max.	.30	100
	Min.	.55	12.7
B3739 (F)	Max.	.35	100
	Min.	.55	6.2
B3609 (F)	Max.	.30	100
	Min.	.60	0.9
Mean	Max.	.32	100
	Min.	.53	6.6
<u>24 WEEKS PRE-DRUG</u>			
B3733 (F)	Max.	.30	100
	Min.	.50	1.5
B3739 (F)	Max.	.35	100
	Min.	.55	1.5
B3609 (F)	Max.	.30	100
	Min.	.55	3.3
Mean	Max.	.32	100
	Min.	.53	2.1
<u>10 WEEKS PRE-DRUG</u>			
*B3733 (F)	Max.	.35	100
	Min.	.55	0.5
B3739 (F)	Max.	.35	100
	Min.	.55	5.7
B3609 (F)	Max.	.30	100
	Min.	.55	5.1
Mean	Max.	.33	100
	Min.	.55	3.8

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 10 MC/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3733 (F)	Max.	.30	100
	Min.	.60	2.0
B3739 (F)	Max.	.30	100
	Min.	.50	3.0
B3609 (F)	Max.	.35	100
	Min.	.50	6.0
Mean	Max.	.32	100
	Min.	.53	3.7
<u>8 WEEKS</u>			
B3733 (F)	Max.	.30	100
	Min.	.55	1.6
B3739 (F)	Max.	-	-
	Min.	-	-
B3609 (F)	Max.	.35	100
	Min.	.50	7.5
Mean	Max.	.33	100
	Min.	.53	4.7
<u>13 WEEKS</u>			
*B3733 (F)	Max.	.30	100
	Min.	.45	10.6
B3739 (F)	Max.	-	-
	Min.	-	-
B3609 (F)	Max.	0.0	100
	Min.	.50	3.2
Mean	Max.	.15	100
	Min.	.48	6.9

\*Repeat values.

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3952 (M)	Max.	.30	100
	Min.	.55	0.9
B3563 (M)	Max.	.30	100
	Min.	.60	0.9
B4093 (M)	Max.	.35	100
	Min.	.60	2.0
Mean	Max.	.32	100
	Min.	.58	1.3
<u>24 WEEKS PRE-DRUG</u>			
B3952 (M)	Max.	0.0	100
	Min.	.50	2.4
B3563 (M)	Max.	.35	100
	Min.	.55	1.0
B4093 (M)	Max.	.30	100
	Min.	.60	1.5
Mean	Max.	.22	100
	Min.	.55	1.8
<u>10 WEEKS PRE-DRUG</u>			
B3952 (M)	Max.	.30	100
	Min.	.50	3.4
B3563 (M)	Max.	0.0	100
	Min.	.55	5.0
B4093 (M)	Max.	.30	100
	Min.	.55	3.9
Mean	Max.	.20	100
	Min.	.53	4.1

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3952 (M)	Max.	.30	100
	Min.	.55	12.0
B3563 (M)	Max.	0.0	100
	Min.	.55	3.0
B4093 (M)	Max.	.35	100
	Min.	.60	3.0
Mean	Max.	.22	100
	Min.	.57	6.0
<u>8 WEEKS</u>			
B3952 (M)	Max.	.30	100
	Min.	.55	1.1
B3563 (M)	Max.	.30	100
	Min.	.55	1.5
B4093 (M)	Max.	.30	100
	Min.	.55	1.8
Mean	Max.	.30	100
	Min.	.55	1.5
<u>13 WEEKS</u>			
B3952 (M)	Max.	.30	100
	Min.	.50	4.2
B3563 (M)	Max.	.30	100
	Min.	.60	1.4
B4093 (M)	Max.	.30	100
	Min.	.65	1.4
Mean	Max.	.30	100
	Min.	.58	2.3

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY ~ RED CELL FRAGILITY  
 RDX ~ 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3599 (F)	Max.	.35	100
	Min.	.55	1.0
B3891 (F)	Max.	0.0	100
	Min.	.30	1.6
B3718 (F)	Max.	.35	100
	Min.	.65	4.6
Mean	Max.	.23	100
	Min.	.60	2.4
<u>24 WEEKS PRE-DRUG</u>			
B3599 (F)	Max.	.35	100
	Min.	.50	27.2
B3891 (F)	Max.	.30	100
	Min.	.55	1.5
*B3718 (F)	Max.	.30	100
	Min.	.55	1.4
Mean	Max.	.32	100
	Min.	.53	10.1
<u>10 WEEKS PRE-DRUG</u>			
B3599 (F)	Max.	.40	100
	Min.	.60	0.9
B3891 (F)	Max.	0.0	100
	Min.	.60	1.3
B3718 (F)	Max.	.35	100
	Min.	.60	1.4
Mean	Max.	.25	100
	Min.	.60	1.2

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3599 (F)	Max.	.40	100
	Min.	.60	4.0
B3891 (F)	Max.	.30	100
	Min.	.60	3.0
B3718 (F)	Max.	0.0	100
	Min.	.55	4.0
Mean	Max.	.23	100
	Min.	.58	3.7
<u>8 WEEKS</u>			
B3599 (F)	Max.	.35	100
	Min.	.50	9.2
B3891 (F)	Max.	.30	100
	Min.	.55	3.4
B3718 (F)	Max.	.30	100
	Min.	.55	6.2
Mean	Max.	.32	100
	Min.	.53	6.3
<u>13 WEEKS</u>			
B3599 (F)	Max.	.35	100
	Min.	.55	1.3
B3891 (F)	Max.	.30	100
	Min.	.60	1.6
B3718 (F)	Max.	.30	100
	Min.	.65	1.4
Mean	Max.	.32	100
	Min.	.60	1.4

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B4254 (M)	Max.	.30	100
	Min.	.60	0.8
B3776 (M)	Max.	.35	100
	Min.	.50	6.4
B3709 (M)	Max.	.35	100
	Min.	.55	2.0
Mean	Max.	.33	100
	Min.	.55	3.1
<u>24 WEEKS PRE-DRUG</u>			
B4254 (M)	Max.	.35	100
	Min.	.55	0.9
B3776 (M)	Max.	.30	100
	Min.	.45	22.2
B3709 (M)	Max.	.35	100
	Min.	.60	1.5
Mean	Max.	.33	100
	Min.	.53	8.2
<u>10 WEEKS PRE-DRUG</u>			
B4254 (M)	Max.	.35	100
	Min.	.55	1.7
B3776 (M)	Max.	.35	100
	Min.	.50	6.2
B3709 (M)	Max.	.35	100
	Min.	.60	0.5
Mean	Max.	.35	100
	Min.	.55	2.8

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B4254 (M)	Max.	.35	100
	Min.	.60	3.0
B3776 (M)	Max.	.30	100
	Min.	.55	3.0
B3709 (M)	Max.	.35	100
	Min.	.65	3.0
Mean	Max.	.33	100
	Min.	.60	3.0
<u>8 WEEKS</u>			
B4254 (M)	Max.	.35	100
	Min.	.65	0.5
B3776 (M)	Max.	.30	100
	Min.	.50	1.0
*B3709 (M)	Max.	.35	100
	Min.	.50	14.3
Mean	Max.	.33	100
	Min.	.55	5.3
<u>13 WEEKS</u>			
*B4254 (M)	Max.	.30	100
	Min.	.50	4.2
B3776 (M)	Max.	.30	100
	Min.	.50	3.2
B3709 (M)	Max.	.35	100
	Min.	.55	1.6
Mean	Max.	.32	100
	Min.	.52	3.0

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3613 (F)	Max.	.30	100
	Min.	.50	5.7
B3646 (F)	Max.	.35	100
	Min.	.55	10.4
B3617 (F)	Max.	.35	100
	Min.	.55	1.6
Mean	Max.	.33	100
	Min.	.53	5.9
<u>24 WEEKS PRE-DRUG</u>			
B3613 (F)	Max.	.35	100
	Min.	.65	1.5
B3646 (F)	Max.	0.0	100
	Min.	.60	1.4
B3617 (F)	Max.	.35	100
	Min.	.60	1.7
Mean	Max.	.23	100
	Min.	.62	1.5
<u>10 WEEKS PRE-DRUG</u>			
B3613 (F)	Max.	.30	100
	Min.	.55	1.6
B3646 (F)	Max.	.35	100
	Min.	.55	3.5
B3617 (F)	Max.	.35	100
	Min.	.55	3.3
Mean	Max.	.33	100
	Min.	.55	2.8

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 RDX - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3613 (F)	Max.	.30	100
	Min.	.55	2.0
B3646 (F)	Max.	.30	100
	Min.	.50	28.0
B3617 (F)	Max.	0.0	100
	Min.	.55	3.0
Mean	Max.	.20	100
	Min.	.53	11.0
<u>8 WEEKS</u>			
B3613 (F)	Max.	.35	100
	Min.	.55	2.9
B3646 (F)	Max.	.35	100
	Min.	.60	12.1
B3617 (F)	Max.	.30	100
	Min.	.55	5.3
Mean	Max.	.33	100
	Min.	.57	6.8
<u>13 WEEKS</u>			
B3613 (F)	Max.	.30	100
	Min.	.55	1.3
B3646 (F)	Max.	.30	100
	Min.	.60	5.5
B3617 (F)	Max.	.30	100
	Min.	.55	6.6
Mean	Max.	.30	100
	Min.	.57	4.5

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3697 (M)	Max.	.30	100
	Min.	.55	2.4
B3775 (M)	Max.	.40	100
	Min.	.55	18.2
B4301 (M)	Max.	.30	100
	Min.	.55	1.9
Mean	Max.	.33	100
	Min.	.55	7.5
<u>24 WEEKS PRE-DRUG</u>			
B3697 (M)	Max.	.35	100
	Min.	.60	1.4
B3775 (M)	Max.	.35	100
	Min.	.55	10.1
B4301 (M)	Max.	.35	100
	Min.	.65	1.5
Mean	Max.	.35	100
	Min.	.60	4.3
<u>10 WEEKS PRE-DRUG</u>			
B3697 (M)	Max.	.35	100
	Min.	.55	1.4
B3775 (M)	Max.	.30	100
	Min.	.55	5.9
B4301 (M)	Max.	.35	100
	Min.	.60	0.2
Mean	Max.	.33	100
	Min.	.57	2.5

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3697 (M)	Max. Min.	.35 .55	100 3.0
*B3775 (M)	Max. Min.	.30 .60	100 2.0
B4301 (M)	Max. Min.	.35 .55	100 1.0
Mean	Max. Min.	.33 .57	100 2.0
<u>8 WEEKS</u>			
B3697 (M)	Max. Min.	.30 .65	100 3.0
B3775 (M)	Max. Min.	.35 .60	100 3.2
B4301 (M)	Max. Min.	.30 .55	100 4.5
Mean	Max. Min.	.32 .60	100 3.6
<u>13 WEEKS</u>			
B3697 (M)	Max. Min.	.35 .55	100 7.1
B3775 (M)	Max. Min.	.35 .50	100 6.2
B4301 (M)	Max. Min.	.30 .55	100 3.4
Mean	Max. Min.	.33 .53	100 5.6

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3857 (F)	Max.	.40	100
	Min.	.55	6.9
B3516 (F)	Max.	.35	100
	Min.	.55	0.6
B3928 (F)	Max.	0.0	100
	Min.	.50	6.7
Mean	Max.	.25	100
	Min.	.53	4.7
<u>24 WEEKS PRE-DRUG</u>			
B3857 (F)	Max.	.40	100
	Min.	.60	1.5
B3516 (F)	Max.	.30	100
	Min.	.65	1.7
B3928 (F)	Max.	.35	100
	Min.	.55	1.6
Mean	Max.	.35	100
	Min.	.60	1.6
<u>10 WEEKS PRE-DRUG</u>			
B3857 (F)	Max.	0.0	100
	Min.	.60	1.4
B3516 (F)	Max.	.30	100
	Min.	.60	0.6
B3928 (F)	Max.	.35	100
	M'n.	.55	1.5
Mean	Max.	.22	100
	Min.	.58	1.2

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3857 (F)	Max.	.40	100
	Min.	.55	3.0
B3516 (F)	Max.	.35	100
	Min.	.60	3.0
B3928 (F)	Max.	.30	100
	Min.	.60	4.0
Mean	Max.	.35	100
	Min.	.58	3.3
<u>8 WEEKS</u>			
B3857 (F)	Max.	.30	100
	Min.	.55	2.1
B3516 (F)	Max.	.35	100
	Min.	.50	10.0
B3928 (F)	Max.	.30	100
	Min.	.55	0.6
Mean	Max.	.32	100
	Min.	.53	4.2
<u>13 WEEKS</u>			
B3857 (F)	Max.	.30	100
	Min.	.65	1.5
*B3516 (F)	Max.	.35	100
	Min.	.50	17.8
B3928 (F)	Max.	0.0	100
	Min.	.55	1.5
Mean	Max.	.23	100
	Min.	.57	6.9

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3782 (M)	Max.	0.0	100
	Min.	.65	3.7
B3773 (M)	Max.	0.0	100
	Min.	.55	2.6
B3427 (M)	Max.	0.0	100
	Min.	.50	1.9
Mean	Max.	0.0	100
	Min.	.57	2.7
<u>24 WEEKS PRE-DRUG</u>			
B3782 (M)	Max.	.30	100
	Min.	.55	1.4
B3773 (M)	Max.	0.0	100
	Min.	.55	5.3
B3427 (M)	Max.	.30	100
	Min.	.65	1.4
Mean	Max.	.20	100
	Min.	.58	2.7
<u>10 WEEKS PRE-DRUG</u>			
B3782 (M)	Max.	.35	100
	Min.	.50	8.0
*B3773 (M)	Max.	.35	100
	Min.	.60	0.2
B3427 (M)	Max.	.30	100
	Min.	.50	3.2
Mean	Max.	.33	100
	Min.	.53	3.8

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
*B3782 (M)	Max.	.30	100
	Min.	.60	3.0
B3773 (M)	Max.	.35	100
	Min.	.60	3.0
B3427 (M)	Max.	.30	100
	Min.	.60	3.0
Mean	Max.	.32	100
	Min.	.60	3.0
<u>8 WEEKS</u>			
B3782 (M)	Max.	.30	100
	Min.	.55	5.7
B3773 (M)	Max.	.35	100
	Min.	.55	1.2
B3427 (M)	Max.	.30	100
	Min.	.50	2.9
Mean	Max.	.32	100
	Min.	.53	3.3
<u>13 WEEKS</u>			
B3782 (M)	Max.	.30	100
	Min.	.45	14.2
B3773 (M)	Max.	.35	100
	Min.	.50	12.1
B3427 (M)	Max.	.35	100
	Min.	.50	1.4
Mean	Max.	.33	100
	Min.	.48	9.2

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
*B3720 (F)	Max.	.35	100
	Min.	.50	10.3
B3608 (F)	Max.	.30	100
	Min.	.65	1.1
B3863 (F)	Max.	.30	100
	Min.	.55	4.0
Mean	Max.	.32	100
	Min.	.57	5.1
<u>24 WEEKS PRE-DRUG</u>			
B3720 (F)	Max.	.40	100
	Min.	.55	1.6
*B3608 (F)	Max.	.35	100
	Min.	.55	4.1
B3863 (F)	Max.	.30	100
	Min.	.55	1.5
Mean	Max.	.35	100
	Min.	.55	2.4
<u>10 WEEKS PRE-DRUG</u>			
B3720 (F)	Max.	.35	100
	Min.	.50	8.0
*B3608 (F)	Max.	.30	100
	Min.	.55	1.5
B3863 (F)	Max.	.30	100
	Min.	.60	1.9
Mean	Max.	.32	100
	Min.	.55	3.8

\*Repeat values.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.1 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3720 (F)	Max.	.30	100
	Min.	.60	3.0
B3608 (F)	Max.	.30	100
	Min.	.55	2.0
B3863 (F)	Max.	.30	100
	Min.	.50	0.5
Mean	Max.	.30	100
	Min.	.55	1.8
<u>8 WEEKS</u>			
B3720 (F)	Max.	0.0	100
	Min.	.55	3.1
B3608 (F)	Max.	.30	100
	Min.	.65	0.6
B3863 (F)	Max.	.30	100
	Min.	.65	0.8
Mean	Max.	.20	1
	Min.	.62	.5
<u>13 WEEKS</u>			
B3720 (F)	Max.	.30	100
	Min.	.50	4.4
B3608 (F)	Max.	.35	100
	Min.	.55	1.5
B3863 (F)	Max.	.35	100
	Min.	.50	3.3
Mean	Max.	.33	100
	Min.	.52	3.1

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TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.02 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3559 (M)	Max.	.30	100
	Min.	.50	16.0
B3848 (M)	Max.	.35	100
	Min.	.55	0.97
B4239 (M)	Max.	0.0	100
	Min.	.55	5.4
Mean	Max.	.22	100
	Min.	.53	7.5
<u>24 WEEKS PRE-DRUG</u>			
B3559 (M)	Max.	.35	100
	Min.	.60	1.5
B3848 (M)	Max.	.40	100
	Min.	.50	6.1
B4239 (M)	Max.	.35	100
	Min.	.55	1.5
Mean	Max.	.37	100
	Min.	.55	3.0
<u>10 WEEKS PRE-DRUG</u>			
B3559 (M)	Max.	.35	100
	Min.	.55	5.1
B3848 (M)	Max.	.30	100
	Min.	.55	0.5
B4239 (M)	Max.	.40	100
	Min.	.55	1.4
Mean	Max.	.35	100
	Min.	.55	2.3

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.02 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3559 (M)	Max. Min.	.35 .50	100 3.0
*B3848 (M)	Max. Min.	.35 .55	100 3.0
*B4239 (M)	Max. Min.	.35 .60	100 3.0
Mean	Max. Min.	.35 .58	100 3.0
<u>8 WEEKS</u>			
B3559 (M)	Max. Min.	.30 .50	100 6.6
B3848 (M)	Max. Min.	.35 .50	100 12.7
*B4239 (M)	Max. Min.	.40 .55	100 6.2
Mean	Max. Min.	.35 .52	100 8.5
<u>13 WEEKS</u>			
B3559 (M)	Max. Min.	.30 .60	100 1.4
B3848 (M)	Max. Min.	.35 .65	100 2.8
B4239 (M)	Max. Min.	.35 .50	100 17.6
Mean	Max. Min.	.33 .58	100 7.3

\*Repeat values.

LITTON BIOMETRICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.02 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3818 (F)	Max.	.30	100
	Min.	.55	2.0
B3867 (F)	Max.	0.0	100
	Min.	.50	15.2
B3860 (F)	Max.	.35	100
	Min.	.60	2.0
Mean	Max.	.22	100
	Min.	.55	6.4
<u>24 WEEKS PRE-DRUG</u>			
B3818 (F)	Max.	.35	100
	Min.	.65	1.4
B3867 (F)	Max.	.35	100
	Min.	.55	1.3
B3860 (F)	Max.	.35	100
	Min.	.55	1.5
Mean	Max.	.35	100
	Min.	.58	1.4
<u>10 WEEKS PRE-DRUG</u>			
B3818 (F)	Max.	.35	100
	Min.	.50	5.3
B3867 (F)	Max.	.30	100
	Min.	.60	2.8
B3860 (F)	Max.	.40	100
	Min.	.60	0.7
Mean	Max.	.35	100
	Min.	.57	2.9

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 TNT - 0.02 MG/KG

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3818 (F)	Max.	.35	100
	Min.	.50	7.0
B3867 (F)	Max.	.30	100
	Min.	.50	0.5
B3860 (F)	Max.	.30	100
	Min.	.50	6.0
Mean	Max.	.32	100
	Min.	.50	4.5
<u>8 WEEKS</u>			
B3818 (F)	Max.	.30	100
	Min.	.50	4.0
B3867 (F)	Max.	.30	100
	Min.	.65	0.8
*B3860 (F)	Max.	.30	100
	Min.	.55	0.6
Mean	Max.	.30	100
	Min.	.57	1.8
<u>13 WEEKS</u>			
B3818 (F)	Max.	.35	100
	Min.	.50	1.4
B3867 (F)	Max.	0.0	100
	Min.	.55	1.4
B3860 (F)	Max.	.30	100
	Min.	.60	5.7
Mean	Max.	.23	100
	Min.	.52	2.8

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 CONTROL

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B4046 (M)	Max.	.35	100
	Min.	.55	12.7
B4238 (M)	Max.	.45	100
	Min.	.65	2.0
B3628 (M)	Max.	.35	100
	Min.	.60	1.1
Mean	Max.	.38	100
	Min.	.60	5.3
<u>24 WEEKS PRE-DRUG</u>			
B4046 (M)	Max.	.35	100
	Min.	.55	5.6
B4238 (M)	Max.	.35	100
	Min.	.65	1.4
B3628 (M)	Max.	.30	100
	Min.	.55	2.9
Mean	Max.	.33	100
	Min.	.58	3.3
<u>10 WEEKS PRE-DRUG</u>			
B4046 (M)	Max.	.35	100
	Min.	.55	2.5
*B4238 (M)	Max.	.35	100
	Min.	.55	6.8
B3628 (M)	Max.	.35	100
	Min.	.55	2.7
Mean	Max.	.35	100
	Min.	.55	4.0

\*Repeat value.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 CONTROL

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B4046 (M)	Max.	.30	100
	Min.	.55	3.0
B4238 (M)	Max.	.40	100
	Min.	.60	3.0
B3628 (M)	Max.	.35	100
	Min.	.50	4.0
Mean	Max.	.35	100
	Min.	.55	3.3
<u>8 WEEKS</u>			
B4046 (M)	Max.	.35	100
	Min.	.55	1.0
B4238 (M)	Max.	.35	100
	Min.	.65	1.6
B3628 (M)	Max.	0.0	100
	Min.	.55	0.8
Mean	Max.	.23	100
	Min.	.58	1.1
<u>13 WEEKS</u>			
B4046 (M)	Max.	.35	100
	Min.	.50	8.8
B4238 (M)	Max.	.30	100
	Min.	.50	11.8
B3628 (M)	Max.	.30	100
	Min.	.50	5.5
Mean	Max.	.32	100
	Min.	.50	8.7

LITTON BIONETICS, INC.

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 CONTROL

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>26 WEEKS PRE-DRUG</u>			
B3297 (F)	Max.	.30	100
	Min.	.55	2.7
B4246 (F)	Max.	0.0	100
	Min.	.50	3.5
B3735 (F)	Max.	.35	100
	Min.	.55	9.3
Mean	Max.	.22	100
	Min.	.38	5.2
<u>24 WEEKS PRE-DRUG</u>			
B3297 (F)	Max.	.30	100
	Min.	.55	1.5
B4246 (F)	Max.	.35	100
	Min.	.55	2.0
B3735 (F)	Max.	.35	100
	Min.	.55	3.1
Mean	Max.	.33	100
	Min.	.55	2.2
<u>10 WEEKS PRE-DRUG</u>			
B3297 (F)	Max.	.30	100
	Min.	.50	15.9
B4246 (F)	Max.	.30	100
	Min.	.55	2.7
B3735 (F)	Max.	.30	100
	Min.	.55	4.5
Mean	Max.	.30	100
	Min.	.53	7.7

TABLE 5 (continued)  
 HEMATOLOGY - RED CELL FRAGILITY  
 CONTROL

<u>MONKEY NO. AND SEX</u>		<u>% NaCl</u>	<u>% HEMOLYSIS</u>
<u>4 WEEKS</u>			
B3297 (F)	Max.	.30	100
	Min.	.60	3.0
B4246 (F)	Max.	.35	100
	Min.	.55	2.0
*B3735 (F)	Max.	.35	100
	Min.	.50	17.0
Mean	Max.	.33	100
	Min.	.55	7.3
<u>8 WEEKS</u>			
B3297 (F)	Max.	.35	100
	Min.	.50	3.9
B4246 (F)	Max.	.35	100
	Min.	.55	0.6
B3735 (F)	Max.	.35	100
	Min.	.50	16.7
Mean	Max.	.35	100
	Min.	.52	7.1
<u>13 WEEKS</u>			
B3297 (F)	Max.	.30	100
	Min.	.65	1.4
B4246 (F)	Max.	0.0	100
	Min.	.50	8.3
B3735 (F)	Max.	.35	100
	Min.	.60	2.9
Mean	Max.	.23	100
	Min.	.58	4.2

\*Repeat value.

## LITTOM BIOMETRICS, INC.

TABLE 6

BLOOD BIOCHEMISTRY  
RDX - 10 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILIRU- BIN (mg%)	TOTAL PROT. (mg%)	AL- BUMIN (g%)	ALK. PHOS. (mU/ml)	LD <sub>H</sub> (mU/ml)	SGOT (mU/ml)
B4050 (M)	100	21	11.0	5.7	0.3	190	0.2	7.8	4.3	350	345	38
B3543 (H)	70	27	11.4	6.0	0.3	155	0.3	7.3	3.8	350	340	45
B3406 (M)	50	29	11.0	5.6	1.2	145	0.4	7.8	4.3	350	505	105
Mean	73	26	11.1	5.8	0.5	163	0.3	7.6	4.1	350	397	63
<u>24 WEEKS PRE-DRUG</u>												
B4050 (M)	80	18	11.3	5.9	0.3	205	0.8	7.4	4.2	350	365	48
B3543 (M)	70	21	11.3	5.8	0.3	160	0.7	7.6	4.1	350	600	85
B3406 (H)	85	22	10.9	5.8	0.7	160	0.7	7.9	4.2	303	600	60
Mean	78	20	11.2	5.8	0.4	175	0.7	7.6	4.2	334	522	64
<u>22 WEEKS PRE-DRUG</u>												
B4050 (M)	77	18	12.1	6.0	0.4	190	0.3	8.1	4.3	612	480	55
B3543 (M)	75	23	11.2	6.1	0.3	170	0.2	7.7	4.1	310	592	50
B3406 (M)	140	22	10.2	5.8	0.5	160	0.2	7.7	4.0	262	542	50
Mean	97	21	11.2	6.0	0.4	173	0.2	7.8	4.1	395	538	52
<u>10 WEEKS PRE-DRUG</u>												
B4050 (M)	90	20	10.6	5.8	0.5	155	0.2	7.1	4.0	1110	340	40
B3543 (M)	93	20	10.8	6.5	0.2	160	0.2	7.4	3.8	410	550	53
B3406 (H)	125	31	9.2	6.6	0.3	155	0.2	7.1	3.5	283	1228	65
Mean	103	24	10.7	6.3	0.3	155	0.2	7.2	3.8	601	706	53

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

RDX - 10 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (g%)	ALB. PROT. (mU/ml)	BUN:N (gm%)	ALK. PiOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
B4050	68	26	12.3	4.8	0.2	190	0.2	8.4	4.6	695	585	60	
B3543	51	25	11.4	5.8	0.2	151	0.2	7.8	3.9	255	1050	55	
B3406	65	34	9.5	7.0	0.2	125	0.3	7.5	3.3	400	2450	145	
Mean	61	28	11.1	5.9	0.2	155	0.2	7.9	3.9	450	1362	87	
R4050	50	14	10.5	6.3	0.2	160	0.9	7.3	3.9	885	915	65	
B3543	50	18	11.9	6.4	0.2	160	0.9	8.1	3.7	280	890	55	
B3406	55	25	10.4	6.5	0.3	140	1.0	7.7	3.5	480	1125	65	
Mean	52	19	10.9	6.4	0.2	153	0.9	7.7	3.7	548	977	62	
B4050	118	18	9.6	5.4	0.8	162	0.2	7.6	4.4	612	504	82	
B3543	56	20	10.0	6.4	0.4	162	0.2	6.0	4.2	310	626	66	
B3406	73	28	10.4	4.6	0.2	143	0.1	7.6	3.5	358	948	109	
Mean	82	22	10.0	5.5	0.5	156	0.2	7.7	4.0	427	693	86	

LITTON BIONETICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

RDX - 10 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG				AL- BUMIN (gm%)	TOTAL PROT. (gm%)	ALK. PHOS. (mU/ml)	LDL (mU/ml)	SGOT (mU/ml)
					URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	ALB- BUMIN (gm%)					
<b>RDX - 10 MG/KG</b>													
83733 (F)	100	24	11.9	5.0	0.3	150	0.2	7.6	3.9	350	600	85	
B3609 (F)	100	20	10.0	5.7	0.5	175	0.3	7.4	4.0	350	370	45	
B3739 (F)	98	34	10.6	5.0	0.3	150	0.2	7.2	4.1	232	279	45	
Mean	99	26	10.8	5.2	0.4	158	0.2	7.4	4.0	311	416	58	
<b>24 WEEKS PRE-DRUG</b>													
B3733 (F)	60	17	10.0	5.2	0.2	170	1.0	7.3	3.6	340	600	73	
B3609 (F)	65	19	10.6	5.5	0.3	180	0.7	7.3	4.0	329	425	45	
B3739 (F)	45	29	10.4	5.6	0.3	150	0.9	7.1	4.0	210	358	75	
Mean	57	22	10.3	5.4	0.3	167	0.8	7.2	3.9	293	461	64	
<b>22 WEEKS PRE-DRUG</b>													
B3733 (F)	55	21	10.2	3.6	0.4	155	0.2	7.0	3.5	323	1040	73	
B3609 (F)	90	20	10.1	5.4	0.4	190	0.2	7.7	4.0	308	335	35	
B3739 (F)	60	29	11.0	3.9	0.5	145	0.2	7.2	4.0	185	405	40	
Mean	50	23	10.4	4.3	0.4	163	0.2	7.3	3.8	272	600	49	
<b>10 WEEKS PRE-DRUG</b>													
B3733 (F)	70	20	10.2	6.1	0.2	210	0.2	7.0	3.3	410	560	60	
B3609 (F)	124	23	9.6	5.8	0.4	190	0.2	6.9	3.5	310	300	45	
B3739 (F)	65	20	10.8	4.5	0.5	130	0.3	7.2	3.8	335	1275	500	
Mean	93	27	10.2	5.5	0.4	177	0.2	7.0	3.5	352	712	202	

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)

## GLUCOD BIOCHEMISTRY

RDX - 10 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	4 WEEKS			8 WEEKS			13 WEEKS		
					URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	ALK. PHOS. (mU/ml)	LD.i. (mU/ml)	SGOT (mU/ml)		
B3732 {F}	104	21	10.8	4.8	0.6	115	0.2	8.3	4.2	400	390	50	
B3609 {F}	65	25	10.0	7.5	0.2	160	0.3	7.8	3.8	375	1160	50	
B3739 {F}	10	52	8.8	12.5	0.6	100	0.2	7.1	3.9	280	2400	270	
Mean													
B3733 {F}	40	21	10.2	4.0	0.2	145	0.8	7.1	3.6	470	1020	70	
B3609 {F}	30	20	10.0	4.4	0.2	145	0.9	7.3	3.8	340	775	50	
B3739 {F}	-	-	-	-	-	-	-	-	-	-	-	-	
Mean	50	21	10.1	4.2	0.2	145	0.8	7.2	3.7	405	898	60	
B3733 {F}	48	18	9.8	4.2	0.4	160	0.2	7.4	4.2	442	992	86	
B3609 {F}	54	24	10.2	4.8	0.2	158	0.1	7.3	3.4	310	622	81	
B3739 {F}	-	-	-	-	-	-	-	-	-	-	-	-	
Mean	51	21	10.0	4.5	0.3	159	0.2	7.4	3.8	376	807	84	

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

RDX - 1 MG/KG								
MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- PROT. (mg%)	ALK. BUN/H: (cm)
<u>26 WEEKS PRE-DRUG</u>								
B3952 (M)	95	25	12.0	5.2	0.3	140	0.2	7.7
B3563 (M)	65	27	11.4	5.5	0.4	170	0.4	4.5
B4093 (M)	125	29	13.0	4.7	0.4	237	0.2	8.7
Mean	95	27	12.1	5.1	0.4	182	0.3	8.3
<u>24 WEEKS PRE-DRUG</u>								
B3952 (M)	59	15	10.7	5.5	0.2	155	1.0	7.0
B3563 (M)	62	21	10.7	5.5	0.4	185	0.7	8.0
B4093 (M)	50	29	11.9	6.1	0.3	245	1.0	8.4
Mean	57	22	11.1	5.7	0.3	195	0.9	7.8
<u>22 WEEKS PRE-DRUG</u>								
B3952 (M)	50	17	11.4	5.5	0.3	150	0.2	7.4
B3563 (M)	80	22	10.4	5.5	0.5	175	0.2	8.2
B4093 (M)	75	27	11.7	4.8	0.3	215	0.2	8.3
Mean	68	22	11.2	5.3	0.4	180	0.2	8.0
<u>10 WEEKS PRE-DRUG</u>								
B3952 (M)	100	10	10.5	5.2	0.4	110	0.3	7.2
B3563 (M)	80	24	10.8	5.0	0.3	160	0.2	7.8
B4093 (M)	100	22	12.7	5.4	0.5	220	0.2	8.1
Mean	93	19	11.3	5.2	0.4	163	0.2	7.7

LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

		RDX - 1 MG/KG										
MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN: PROT. (gm%)	ALK. PHOS. (mU/ml)	LDL (mU/ml)	SGOT (mU/ml)
83952 (M)	60	18	10.8	6.2	0.3	135	0.2	8.0	4.3	485	1130	75
83563 (H)	42	24	10.1	5.7	0.3	165	0.3	7.9	4.0	485	1025	60
84093 (H)	50	24	10.8	4.4	0.3	190	0.3	7.9	3.9	550	1265	85
Mean	51	22	10.6	5.4	0.3	163	0.3	7.9	4.1	507	1140	73
<u>4 WEEKS</u>												
83952 (M)	52	15	11.2	7.0	0.2	170	0.9	7.8	4.2	690	950	70
83563 (H)	50	20	11.5	6.3	0.3	170	0.9	7.8	4.2	690	950	70
84093 (H)	45	16	10.1	5.3	0.2	180	1.0	7.6	3.8	755	1300	90
Mean	49	17	10.9	6.2	0.2	173	0.9	7.7	4.1	712	1067	77
<u>8 WEEKS</u>												
83952 (M)	68	14	10.8	7.4	0.6	154	0.2	8.8	4.4	584	778	102
83563 (H)	78	20	9.8	6.9	0.2	165	0.2	7.8	3.8	548	840	112
84093 (H)	55	27	11.0	4.5	0.2	171	0.2	7.6	3.6	472	960	134
Mean	67	20	10.5	6.3	0.3	163	0.2	8.1	3.9	535	859	116
<u>13 WEEKS</u>												

LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

RDX - ? MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG		24 WEEKS PRE-DRUG		22 WEEKS PRE-DRUG		10 WEEKS PRE-DRUG	
					URIC ACID (mg%)	CIROL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	BUN/H (gm%)	ALK- P:ROS. (mU/ml)	LDL: (mU/ml)	SGOT (mU/ml)
B3599 (F)	80	20	10.3	5.8	0.3	210	0.4	8.1	4.1	330	500	50
B3891 (F)	110	19	10.6	6.2	0.4	175	0.3	8.0	4.6	315	50	45
B3718 (F)	70	20	11.2	5.5	0.4	190	0.3	8.3	4.5	350	445	45
Mean	87	20	10.7	5.8	0.4	192	0.3	8.1	4.4	332	335	47
B3599 (F)	72	25	10.9	5.1	0.3	178	0.7	7.7	4.1	240	400	48
B3891 (F)	90	18	10.7	5.7	0.4	195	0.8	7.7	4.2	265	600	60
B3718 (F)	85	18	11.3	5.7	0.4	175	0.7	7.7	4.4	270	455	45
Mean	82	20	11.0	5.5	0.4	182	0.7	7.7	4.2	258	495	51
B3599 (F)	-	-	-	-	-	-	-	-	-	-	-	-
B3891 (F)	75	19	10.2	5.1	0.4	165	0.1	7.3	3.9	260	616	85
B3718 (F)	85	21	11.2	5.0	0.3	180	0.2	7.4	4.0	270	340	33
Mean	80	20	10.7	5.1	0.4	172	0.2	7.4	4.0	265	478	59
B3599 (F)	-	-	-	-	-	-	-	-	-	-	-	-
B3891 (F)	85	24	10.7	5.7	0.3	165	0.2	7.5	3.8	512	325	32
B3718 (F)	108	21	9.9	3.5	0.2	110	0.2	6.5	3.4	450	1465	160
Mean	95	21	10.4	4.9	0.3	145	0.2	7.2	3.7	436	340	50
B3599 (F)	-	-	-	-	-	-	-	-	-	-	-	-
B3891 (F)	92	19	10.6	5.5	0.3	160	0.2	7.5	4.0	345	340	50
Mean	95	21	10.4	4.9	0.3	145	0.2	7.2	3.7	436	710	81

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)

## BLOOD BIOCHEMISTRY

RDX - 1 MG/KG

<u>MONKEY NO. AND SEX</u>	<u>GLU- COSE (mg%)</u>	<u>BUN (mg%)</u>	<u>Ca (mg%)</u>	<u>P (mg%)</u>	<u>URIC ACID (mg%)</u>	<u>CHOL. (mg%)</u>	<u>BILI- RUBIN (mg%)</u>	<u>TOTAL PROT. (gm%)</u>	<u>AL- BUMIN (gm%)</u>	<u>ALK. PHOS. (mU/ml)</u>	<u>LDI (mU/ml)</u>	<u>SGOT (mU/ml)</u>
<u>4 WEEKS</u>												
B3599 (F)												
54												
B3891 (F)												
50												
B3718 (F)												
23												
Mean												
<u>8 WEEKS</u>												
B3599 (F)												
45												
B3891 (F)												
55												
B3718 (F)												
45												
Mean												
<u>13 WEEKS</u>												
B3599 (F)												
60												
B3891 (F)												
94												
B3718 (F)												
60												
Mean												

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.01 MG/KG

<u>MONKEY NO. AND SEX</u>	<u>GLU- COSE (mg%)</u>	<u>BUN (mg%)</u>	<u>Ca (mg%)</u>	<u>P (mg%)</u>	<u>URIC ACID (mg%)</u>	<u>CROL. (mg%)</u>	<u>BILI- RUBIN (mg%)</u>	<u>TOTAL PROT. (gm%)</u>	<u>AL- BUMIN (gm%)</u>	<u>ALK- PHOS. (mU/ml)</u>	<u>L.D.i (mU/ml)</u>	<u>SGOT (mU/ml)</u>
<u>26 WEEKS PRE-DRUG</u>												
<u>84254</u>												
{M}	55	34	12.4	6.1	0.4	155	0.2	7.8	4.1	350	482	60
{M}	75	26	10.8	5.8	0.6	125	0.5	7.2	4.0	350	600	105
{M}	70	20	10.9	5.7	0.3	135	0.4	8.6	4.4	350	395	40
Mean	70	27	11.4	5.9	0.4	138	0.4	7.9	4.2	350	492	68
<u>24 WEEKS PRE-DRUG</u>												
{M}	60	20	9.6	5.5	0.2	138	0.9	6.9	3.8	350	600	55
{M}	60	27	9.4	5.3	0.3	123	0.9	6.8	3.6	350	580	48
{M}	80	18	11.5	5.6	0.5	148	0.7	8.8	4.6	350	360	32
Mean	67	22	10.2	5.5	0.3	136	0.8	7.5	4.0	350	513	45
<u>22 WEEKS PRE-DRUG</u>												
{M}	78	20	11.3	5.4	0.3	140	0.2	7.3	4.0	444	483	45
{M}	45	28	10.4	5.0	0.2	125	0.1	7.1	3.8	420	608	43
{M}	90	19	10.7	5.6	0.4	125	0.2	9.1	4.1	320	590	55
Mean	71	22	10.8	5.3	0.3	130	0.2	7.8	4.0	395	560	48
<u>10 WEEKS PRE-DRUG</u>												
{M}	82	21	10.8	5.8	0.4	105	0.2	6.9	3.7	695	450	40
{M}	75	28	10.4	5.0	0.2	125	0.1	7.1	3.8	420	608	43
{M}	80	23	11.3	8.0	0.3	160	0.3	8.3	4.1	464	570	35
Mean	79	24	10.8	6.3	0.3	130	0.2	7.4	3.9	526	543	39

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)

## BLOOD BIOCHEMISTRY

RDX - 0.01 MG/KG

<u>MONKEY NO. AND SEX</u>	<u>GLU- COSE (mg%)</u>	<u>BUN (mg%)</u>	<u>Ca (mg%)</u>	<u>P (mg%)</u>	<u>URIC ACID (mg%)</u>	<u>CHOL. (mg%)</u>	<u>BILI- RUBIN (mg%)</u>	<u>TOTAL PROT. (gm%)</u>	<u>AL- BUMIN (gm%)</u>	<u>ALK. PHOS. (mU/ml)</u>	<u>L.D. (mU/ml)</u>	<u>SGOT (mU/ml)</u>
<u>4 WEEKS</u>												
84254 (M)												
54												
B3776 (M)												
66												
B3709 (M)												
Mean												
<u>8 WEEKS</u>												
84254 (M)												
75												
B3776 (M)												
60												
B3709 (M)												
Mean												
<u>13 WEEKS</u>												
84254 (M)												
86												
B3776 (M)												
62												
B3709 (M)												
Mean												

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY  
RDX - 0.01 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)		CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	ALB- BUMIN (gm%)	PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
					26 WEEKS PRE-DRUG								
B3613 (F)	40	25	11.2	6.3	0.4	200	0.3	7.6	4.2	350	530	45	
B3646 (F)	55	25	11.5	5.8	0.4	150	0.4	8.3	4.3	150	305	60	
B3617 (F)	55	26	10.6	5.9	0.6	155	0.3	8.0	4.1	350	555	75	
Mean	50	25	11.1	6.0	0.5	168	0.3	8.0	4.2	283	463	60	
<u>24 WEEKS PRE-DRUG</u>													
B3613 (F)	75	20	11.6	6.2	0.4	215	0.8	7.5	4.3	325	525	40	
B3646 (F)	70	22	10.8	5.4	0.3	140	0.7	7.8	4.1	107	425	48	
B3617 (F)	80	21	11.2	5.7	0.5	205	0.8	8.1	4.2	350	600	58	
Mean	75	21	11.2	5.8	0.4	187	0.8	7.8	4.2	261	517	49	
<u>22 WEEKS PRE-DRUG</u>													
B3613 (F)	120	26	11.6	6.4	0.4	183	0.2	7.5	4.0	330	455	35	
B3646 (F)	-	-	-	-	-	-	-	-	-	-	-	-	
B3617 (F)	90	26	10.5	5.5	0.5	145	0.2	7.8	3.9	320	554	70	
Mean	105	26	11.1	6.0	0.4	164	0.2	7.6	4.0	325	504	52	
<u>10 WEEKS PRE-DRUG</u>													
B3613 (F)	70	22	11.3	6.6	0.4	215	0.3	7.4	3.7	448	340	40	
B3646 (F)	82	20	10.5	5.1	0.3	140	0.3	7.3	3.7	215	280	45	
B3617 (F)	80	22	11.3	5.5	0.5	175	0.3	7.8	3.9	362	530	53	
Mean	77	21	11.0	5.7	0.4	177	0.3	7.7	3.8	342	383	46	

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

RDX - 0.01 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILIRU- BINI (mg%)	TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK. PiOS. (mIU/ml)	LDL (mIU/ml)	SGOT (mIU/ml)
B3613 {F}	65	26	10.2	5.4	0.2	160	0.2	7.1	3.7	385	1295	60
B3646 {F}	51	17	10.3	6.3	0.2	130	0.2	7.5	3.5	270	405	50
B3617 {F}	80	21	10.9	4.7	0.5	170	0.2	0.0	4.0	450	1070	70
Mean	65	21	10.5	5.5	0.3	153	0.2	7.5	3.7	368	923	60
B3613 {F}	65	26	12.5	6.9	0.2	195	1.0	7.4	3.9	555	525	40
B3646 {F}	65	16	9.8	6.1	0.2	140	1.0	7.6	3.5	240	475	55
B3617 {F}	60	22	11.6	7.9	0.3	185	1.0	8.4	4.1	705	770	70
Mean	63	21	11.3	7.0	0.2	173	1.0	7.8	3.8	500	590	55
B3613 {F}	94	18	10.2	5.6	0.4	156	0.2	7.0	4.0	394	502	72
B3646 {F}	64	18	10.0	6.6	0.4	144	0.2	8.0	3.8	288	328	60
B3617 {F}	105	22	11.2	5.3	0.5	175	0.1	8.1	3.9	428	909	181
Mean	83	19	10.5	5.8	0.4	158	0.2	7.7	3.9	370	580	104

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG		TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK- PHOS. (mU/ml)	LD <sub>i</sub> (mU/ml)	SGOT (mU/ml)
					URIC ACID (mg%)	CHOL. (mg%)					
B3697	70	23	12.1	5.9	0.3	130	0.4	9.1	5.1	210	385
B3775	93	28	11.4	4.5	0.3	192	0.2	8.1	4.3	350	300
B4301	65	34	11.6	5.8	0.3	195	0.2	8.3	4.3	350	400
Mean	76	28	11.7	5.4	0.3	172	0.3	8.5	4.6	303	362
<u>24 WEEKS PRE-DRUG</u>											
B3697	50	24	11.9	5.6	0.3	145	0.8	8.8	4.9	177	415
B3775	85	24	10.7	5.7	0.4	215	0.9	7.7	4.2	350	445
B4301	90	25	10.3	5.5	0.3	185	0.7	7.5	4.2	314	600
Mean	75	24	11.0	5.6	0.3	182	0.8	8.0	4.4	280	487
<u>22 WEEKS PRE-DRUG</u>											
B3697	100	23	10.5	4.5	0.2	138	0.2	8.2	4.1	154	544
B3775	75	23	11.5	5.7	0.5	230	0.2	8.3	4.2	345	358
B4301	145	27	10.0	5.1	0.3	170	0.2	7.8	4.2	273	600
Mean	107	24	10.7	5.1	0.3	179	0.2	8.1	4.2	257	501
<u>10 WEEKS PRE-DRUG</u>											
B3697	73	28	11.6	5.7	0.3	140	0.2	8.2	4.0	210	415
B3775	75	26	11.1	5.4	0.3	190	0.2	7.7	4.0	512	900
B4301	85	25	.9	5.0	0.3	160	0.2	7.3	3.8	450	480
Mean	78	26	10.9	5.4	0.3	163	0.2	7.7	3.9	391	598

LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

MONKEY NO. AND SEX	THI - 1 MG/KG									
	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILIR. UBT (mg%)	TOTAL PROT. (gm%)	ALK. PHOS. (mU/ml)	L.D.H. (mU/ml)
	<u>4 WEEKS</u>									
B3697 (M)	79	27	11.3	6.1	0.4	130	0.2	8.4	4.3	285
B3775 (M)	56	29	11.4	5.4	0.4	210	0.2	7.9	4.0	590
B4301 (M)	50	29	9.1	5.4	0.2	153	0.4	7.4	3.6	400
Mean	62	28	10.6	5.6	0.3	164	0.3	7.9	4.0	425
	<u>8 WEEKS</u>									
B3697 (M)	70	26	11.6	5.6	0.3	120	0.9	8.4	4.1	275
B3775 (M)	50	24	10.2	5.2	0.3	205	0.9	7.4	3.8	720
B4301 (M)	40	29	9.8	5.4	0.3	160	0.9	7.3	3.6	525
Mean	53	26	10.5	5.4	0.3	162	0.9	7.7	3.8	507
	<u>13 WEEKS</u>									
B3697 (M)	74	28	11.0	7.0	0.6	164	0.4	9.2	5.0	332
B3775 (M)	72	22	9.6	6.4	0.4	200	0.2	7.8	4.2	584
B4301 (M)	66	26	9.2	6.0	0.4	188	0.4	7.0	4.0	372
Mean	71	25	9.9	6.5	0.5	184	0.3	8.0	4.4	429
B3697 (M)	74	28	11.0	7.0	0.6	164	0.4	9.2	5.0	868
B3775 (M)	72	22	9.6	6.4	0.4	200	0.2	7.8	4.2	528
B4301 (M)	66	26	9.2	6.0	0.4	188	0.4	7.0	4.0	722
Mean	71	25	9.9	6.5	0.5	184	0.3	8.0	4.4	706

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG				24 WEEKS PRE-DRUG				22 WEEKS PRE-DRUG				10 WEEKS PRE-DRUG			
					URIC ACID (mg%)	CLOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL- BUN: (gm%)	ALK. PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)	URIC ACID (mg%)	CLOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL- BUN: (gm%)	ALK. PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
B33857 (F)	90	21	10.7	4.3	0.3	150	0.3	7.7	4.2	350	550	70								
B33516 (F)	105	23	9.9	6.2	0.6	160	0.4	8.2	4.3	350	345	45								
B33928 (F)	65	20	10.3	5.9	0.4	150	0.2	7.5	4.0	350	395	45								
Mean	87	21	10.3	5.5	0.4	153	0.3	7.8	4.2	350	430	53								
B33857 (F)	78	20	10.8	5.9	0.4	175	1.0	7.6	4.3	313	380	58								
B33516 (F)	80	20	11.0	5.6	0.4	155	0.7	8.1	4.4	318	588	70								
B33928 (F)	65	18	11.0	5.6	0.4	195	0.8	7.6	4.3	350	370	48								
Mean	74	19	10.9	5.7	0.4	175	0.8	7.8	4.3	327	446	59								
B33857 (F)	78	25	11.2	5.6	0.3	145	0.2	8.1	4.2	328	1068	100								
B33516 (F)	65	28	10.6	4.2	0.4	140	0.2	7.7	4.1	343	1028	85								
B33928 (F)	58	21	11.2	5.6	0.6	140	0.1	7.9	4.2	352	350	60								
Mean	67	25	11.0	5.1	0.4	142	0.2	7.9	4.2	341	815	82								
B33857 (F)	105	15	10.2	6.3	0.5	155	0.3	7.4	3.8	525	1075	75								
B33516 (F)	110	19	10.8	6.0	0.4	170	0.3	7.8	3.9	340	410	50								
B33928 (F)	85	20	10.0	5.0	0.4	155	0.2	7.2	3.9	470	290	40								
Mean	100	18	10.3	5.8	0.4	160	0.3	7.5	3.9	445	592	55								

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)

## BLOOD BIOCHEMISTRY

TNT - 1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK. PHOS. (mU/ml)	L.D.I. (ml/ml)	SGOT (mU/ml)
<u>4 WEEKS</u>												
B3857 (F)	67	24	10.4	2.7	0.3	100	0.2	7.0	3.4	355	990	70
B3516 (F)	45	24	9.8	7.4	0.2	145	0.5	7.9	3.7	420	1165	60
B3928 (F)	40	26	9.8	5.8	0.2	145	0.3	7.7	3.7	375	1305	75
Mean	51	25	10.0	5.3	0.2	130	0.3	7.5	3.6	383	1153	68
<u>8 WEEKS</u>												
B3857 (F)	35	22	9.5	5.1	0.3	100	0.9	6.9	3.3	515	770	75
B3516 (F)	70	29	11.2	3.1	0.3	155	0.9	7.6	4.0	530	850	75
B3928 (F)	40	22	10.7	5.5	0.2	145	0.9	7.5	3.7	450	575	70
Mean	48	24	10.5	4.6	0.3	133	0.9	7.3	3.7	498	732	73
<u>13 WEEKS</u>												
B3857 (F)	108	26	10.4	6.0	0.6	128	0.2	7.2	3.6	566	766	86
B3516 (F)	64	30	11.1	4.0	0.2	158	0.1	7.3	3.5	536	864	92
B3928 (F)	80	18	11.2	5.6	0.3	147	0.2	7.9	3.9	330	634	121
Mean	84	25	10.9	5.2	0.4	144	0.2	7.5	3.7	477	755	100

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG			24 WEEKS PRE-DRUG			10 WEEKS PRE-DRUG		
					URIC ACID (mg%)	CHOL. (mg%)	BILIRU- GIN (mg%)	TOTAL PROT. (gm%)	ALK. PHOS. (mU/ml)	LD.i (mU/ml)	SGOT (mU/ml)		
B3782	{M}	80	24	11.0	3.4	0.2	150	0.2	7.6	4.4	305	415	58
B3773	{M}	115	28	11.4	3.9	0.2	112	0.2	8.0	4.4	350	312	40
B3427	{M}	80	23	10.0	6.0	0.6	135	0.3	7.7	4.3	350	295	70
Mean		92	25	10.8	4.4	0.3	132	0.2	7.8	4.4	350	341	56
B3782	{M}	65	19	9.8	4.9	0.2	163	1.0	7.3	4.3	272	410	50
B3773	{M}	104	20	12.3	5.6	0.4	152	1.0	8.6	4.6	330	250	40
B3427	{M}	60	23	10.0	5.9	0.4	139	0.7	7.6	4.4	350	393	50
Mean		76	21	10.7	5.5	0.3	151	0.9	7.8	4.4	317	351	47
B3782	{M}	-	-	-	-	-	-	-	-	-	-	-	-
B3773	{M}	100	21	11.3	4.8	0.2	120	0.2	8.3	4.4	278	415	85
B3427	{M}	95	22	10.6	6.2	0.6	155	0.2	7.6	4.1	352	408	37
Mean		98	22	11.0	5.5	0.4	138	0.2	8.0	4.2	315	412	61
B3782	{M}	65	20	9.5	4.8	0.3	135	0.2	6.8	3.8	428	340	40
B3773	{M}	115	21	11.7	5.2	0.5	125	0.3	8.0	4.1	616	220	40
B3427	{M}	75	24	10.0	6.3	0.2	135	0.2	7.1	3.8	528	390	50
Mean		85	22	10.4	5.4	0.3	132	0.2	7.3	3.9	524	317	43

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUGIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK. PHOS. (mU/ml)	LDH (mU/ml)	SCOT (mU/ml)
<u>4 WEEKS</u>												
B3782	62	21	10.3	4.6	0.2	150	0.2	7.6	4.3	345	980	60
B3773	49	21	10.0	3.8	0.2	135	0.2	7.3	3.8	350	1355	85
B3427	40	25	10.4	8.3	0.2	165	0.5	7.7	3.7	420	1165	60
Mean	50	22	10.2	5.6	0.2	150	0.3	7.5	3.9	372	1167	68
<u>8 WEEKS</u>												
B3782	50	20	9.8	3.7	0.2	150	0.9	7.1	4.0	320	575	50
B3773	65	19	11.2	5.8	0.4	130	0.9	8.2	4.1	525	365	50
B3427	30	25	10.0	5.0	0.2	150	1.0	7.5	3.7	575	515	60
Mean	48	21	10.3	4.8	0.3	143	0.9	7.6	3.9	473	485	53
<u>13 WEEKS</u>												
B3782	68	20	9.4	5.2	0.4	156	0.2	7.4	4.4	514	466	72
B3773	106	16	9.8	5.6	0.6	132	0.2	8.2	4.2	492	330	60
B3427	64	24	9.8	4.9	0.2	137	0.2	7.4	3.6	586	576	112
Mean	79	20	9.7	5.2	0.4	142	0.2	7.7	4.1	531	457	81

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL-BU- MIN (gm%)	ALK. PHOS. (mU/ml)	L.D.I. (mU/ml)	SGOT (mU/ml)
<u>26 WEEKS PRE-DRUG</u>												
83720 {F}	105	13	11.9	5.8	0.4	210	0.2	8.2	4.3	203	440	40
B3608 {F}	40	35	9.9	6.1	0.5	180	0.4	7.7	4.2	245	575	70
B3863 {F}	90	36	12.1	3.5	0.3	145	0.2	7.1	3.9	350	600	145
Mean	78	28	11.3	5.1	0.4	178	0.3	7.7	4.1	266	538	85
<u>24 WEEKS PRE-DRUG</u>												
83720 {F}	104	16	11.4	5.2	0.3	195	1.0	7.9	3.9	162	455	45
B3608 {F}	110	27	10.8	6.3	0.8	155	0.7	7.2	4.0	157	600	45
B3863 {F}	80	31	10.3	4.8	0.2	155	0.9	6.7	3.8	325	500	55
Mean	98	25	10.8	5.4	0.4	168	0.9	7.3	3.9	215	518	48
<u>22 WEEKS PRE-DRUG</u>												
83720 {F}	-	-	-	-	-	-	-	-	-	-	-	-
B3608 {F}	100	27	10.4	6.7	0.3	160	0.2	7.4	3.9	220	508	43
B3863 {F}	85	40	11.2	4.9	0.3	150	0.1	6.3	3.4	338	505	110
Mean	92	34	10.8	5.8	0.3	155	0.2	6.8	3.6	279	506	76
<u>10 WEEKS PRE-DRUG</u>												
83720 {F}	100	22	11.2	6.0	0.3	220	0.2	7.8	3.9	233	290	75
B3608 {F}	50	29	10.3	8.2	0.6	155	0.3	7.0	3.6	278	435	45
B3863 {F}	60	25	9.9	4.9	0.5	130	0.2	6.6	3.3	475	320	43
Mean	70	25	10.5	6.4	0.5	168	0.2	7.1	3.6	329	348	54

LUTTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.1 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (amg%)	ALK- EUT. III (gm%)	ALK- PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
B3720 (F)	81	12	10.3	4.5	0.2	205	0.2	8.0	4.0	350	1195	60
B3608 (F)	35	30	10.0	5.1	0.3	135	0.3	7.6	3.6	425	1280	65
B3863 (F)	40	23	10.2	7.7	0.2	153	0.5	7.3	3.9	590	1160	65
Mean	52	22	10.2	5.8	0.2	164	0.3	7.4	3.8	455	1212	63
<hr/>												
B3720 (F)	70	14	10.9	5.6	0.2	195	0.9	7.7	3.9	295	1175	70
B3608 (F)	25	30	9.6	5.8	0.3	160	1.0	7.0	3.7	305	740	60
B3863 (F)	55	26	10.6	5.9	0.4	180	0.9	7.1	3.9	730	550	55
Mean	50	23	10.4	5.8	0.3	178	0.9	7.3	3.8	443	822	62
<hr/>												
B3720 (F)	90	14	10.4	8.0	1.6	204	0.2	8.4	4.4	360	604	92
B3608 (F)	70	30	10.2	7.2	0.4	170	0.2	7.4	4.0	360	540	66
B3863 (F)	82	26	10.0	6.0	0.2	140	0.6	6.8	4.0	554	536	102
Mean	81	23	10.2	7.1	0.7	171	0.3	7.5	4.1	425	560	87

TABLE 6 (continued)

## BLOOD BIOCHEMISTRY

TNT - 0.02 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	26 WEEKS PRE-DRUG		24 WEEKS PRE-DRUG		22 WEEKS PRE-DRUG		10 WEEKS PRE-DRUG	
					URIC ACID (mg%)	CHOL. (mg%)	BILIRU- BUTIN (mg%)	TOTAL PROT. (g%)	ALK. PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)	
B3559 (M)	60	13	10.0	5.8	0.3	125	0.4	7.5	4.0	350	270	
B3848 (M)	125	30	10.5	4.9	0.4	185	0.3	8.2	4.4	173	425	
B4239 (M)	95	31	11.8	3.7	0.3	125	0.2	7.3	4.3	350	600	
Mean	93	26	10.8	4.8	0.3	145	0.3	7.7	4.2	291	432	
B3559 (M)	80	18	10.9	5.8	0.4	155	0.8	8.2	4.5	350	600	
B3848 (M)	72	24	10.4	5.4	0.2	222	1.0	7.9	4.3	154	560	
B4239 (M)	60	24	10.1	5.7	0.3	178	0.9	6.8	4.1	350	600	
Mean	71	22	10.5	5.6	0.3	185	0.9	7.6	4.3	285	587	
B3559 (M)	168	20	11.7	5.2	0.9	140	0.2	8.2	4.2	305	1036	
B3848 (M)	65	30	10.5	4.1	0.5	200	0.2	8.1	4.3	136	585	
B4239 (M)	75	23	11.1	6.1	0.3	180	0.2	7.4	4.5	612	510	
Mean	103	24	11.1	5.1	0.6	173	0.2	7.9	4.3	351	710	
B3559 (M)	120	19	11.5	6.0	0.5	115	0.3	7.6	4.1	436	390	
B3848 (M)	85	22	10.4	5.0	0.3	175	0.2	7.8	4.1	210	370	
B4239 (M)	100	20	10.0	6.7	0.5	175	0.3	6.7	4.0	1415	440	
Mean	102	20	10.6	5.9	0.4	155	0.3	7.4	4.1	687	400	

LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY

TNT - 0.02 MG/KG

<u>MONKEY NO. AND SEX</u>	<u>GLU- COSE (mg%)</u>	<u>BUN (mg%)</u>	<u>Ca (mg%)</u>	<u>P (mg%)</u>	<u>URIC ACID (mg%)</u>	<u>CHOL. (mg%)</u>	<u>BILIBI- RUBIN (mg%)</u>	<u>TOTAL PROT. (gm%)</u>	<u>ALK- BUN/IN (umol)</u>	<u>LDH: P:Q:S. (mU/ml)</u>	<u>SGOT (mU/ml)</u>
<u>4 WEEKS</u>											
83559 (M)											
83848 (M)											
84239 (M)											
<b>Mean</b>											
<u>8 WEEKS</u>											
83559 (M)											
83848 (M)											
84239 (M)											
<b>Mean</b>											
<u>13 WEEKS</u>											
83559 (M)											
83848 (M)											
84239 (M)											
<b>Mean</b>											

## LITTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY									
TNT - 0.02 MG/KG									
MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	ALK- PHOS. (mU/ml)
									BUN/H (gm%)
B3818 (F)	185	25	10.0	3.6	0.2	170	0.2	6.3	3.3
B3867 (F)	75	30	11.2	6.4	0.4	190	0.3	8.3	4.4
B3860 (F)	95	30	11.4	4.4	0.3	208	0.2	8.0	3.9
Mean	118	28	10.9	4.8	0.3	189	0.2	7.5	3.9
24 WEEKS PRE-DRUG									
B3818 (F)	70	18	9.6	5.2	0.3	183	1.0	6.3	3.4
B3867 (F)	95	27	11.9	5.7	0.4	200	0.8	8.3	4.4
B3860 (F)	105	22	10.7	5.8	0.3	200	1.0	7.6	3.8
Mean	90	22	10.7	5.6	0.3	194	0.9	7.4	3.9
22 WEEKS PRE-DRUG									
B3818 (F)	65	28	10.5	3.8	0.5	190	0.2	6.7	3.5
B3867 (F)	-	-	-	-	-	-	-	-	-
B3860 (F)	83	28	11.8	5.2	0.6	180	0.2	8.3	4.2
Mean	74	28	11.2	4.5	0.6	185	0.2	7.5	3.8
10 WEEKS PRE-DRUG									
B3818 (F)	75	25	10.1	3.6	0.3	140	0.2	6.0	3.0
B3867 (F)	95	18	10.5	4.8	0.4	175	0.2	7.2	3.6
B3860 (F)	120	23	11.7	5.6	0.4	230	0.4	7.8	3.9
Mean	97	22	10.8	4.7	0.4	182	0.3	7.0	3.5

A-90

TABLE 6 (continued)

## BLOOD BIOCHEMISTRY

TNT - 0.02 MG/KG

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	TOTAL PROT. (gm%)	ALK- PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
<u>4 WEEKS</u>											
B3818 (F)	30	27	9.6	4.8	0.3	175	0.2	5.7	2.6	355	1140
B3867 (F)	46	22	10.6	5.3	0.3	210	0.3	7.9	3.8	285	1025
B3860 (F)	35	30	10.0	6.2	0.9	155	0.5	7.4	3.5	1140	1120
Mean	37	26	10.1	5.4	0.5	180	0.3	7.0	3.3	593	1095
<u>8 WEEKS</u>											
B3818 (F)	50	31	9.5	4.3	0.2	160	0.9	5.5	2.7	470	510
B3867 (F)	90	14	11.5	6.3	0.3	215	1.0	8.1	4.1	330	420
B3860 (F)	50	27	10.7	5.1	0.3	160	1.0	7.2	3.8	200	1065
Mean	63	24	10.6	5.2	0.3	178	1.0	6.9	3.5	333	665
<u>13 WEEKS</u>											
B3818 (F)	46	30	10.0	3.4	0.6	180	0.2	6.0	3.0	480	408
B3867 (F)	82	18	10.8	6.2	0.6	226	0.2	8.6	4.4	302	292
B3860 (F)	55	33	11.0	4.4	0.2	159	0.2	7.4	3.5	230	813
Mean	61	27	10.6	4.7	0.5	188	0.2	7.3	3.6	337	504

TABLE 5. (continued)  
BLOOD BIOCHEMISTRY

## CONTROL

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUSIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN: (gm%)	ALK. PHOS. (mU/ml)	LD.L (mU/ml)	SGOT (mU/ml)
B4046 (M)	127	23	10.9	5.6	0.5	155	0.2	7.5	3.8	350	485	63
B4238 (M)	85	33	13.9	6.3	0.4	225	0.2	9.3	4.8	350	370	40
B3628 (M)	80	24	12.2	5.8	0.6	180	0.3	8.4	4.5	350	325	60
Mean	97	27	12.3	5.9	0.5	187	0.2	8.4	4.4	350	393	54
24 WEEKS PRE-DRUG												
B4046 (M)	63	18	11.2	5.7	0.3	192	1.0	7.6	4.2	350	382	60
B4238 (M)	62	36	11.6	5.1	0.3	193	0.8	7.2	4.1	350	600	62
B3628 (M)	80	24	11.2	5.6	0.4	190	0.7	7.7	4.4	350	600	60
Mean	68	26	11.3	5.5	0.3	192	0.8	7.5	4.2	350	527	61
22 WEEKS PRE-DRUG												
B4046 (M)	68	18	10.3	4.5	0.3	180	0.2	7.1	3.6	444	622	68
B4238 (M)	80	25	11.9	5.1	0.4	220	0.2	8.5	4.5	368	534	57
B3628 (M)	98	27	11.0	6.0	0.4	175	0.2	8.0	4.3	466	602	57
Mean	82	23	11.1	5.2	0.4	192	0.2	7.9	4.1	426	586	61
10 WEEKS PRE-DRUG												
B4046 (M)	95	19	9.8	4.9	0.4	150	0.2	7.0	3.7	735	360	43
B4238 (M)	85	25	11.0	3.7	0.4	180	0.2	7.8	4.0	590	1030	45
B3628 (M)	90	28	11.1	6.3	0.4	190	0.3	7.7	4.0	566	480	105
Mean	90	24	10.6	5.0	0.4	173	0.2	7.5	3.9	630	623	64

LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILLI- RUBIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK. PHOS. (mU/ml)	LDL (mU/ml)	SGOT (mU/ml)
B4046	65	18	10.4	6.8	0.3	165	0.2	7.6	3.8	575	1120	70
B4238	85	20	10.4	5.6	0.4	155	0.2	7.6	3.9	550	1240	70
B3628	78	24	10.9	5.7	0.3	175	0.2	7.7	4.0	550	1050	60
Mean	76	21	10.6	6.0	0.3	165	0.2	7.6	3.9	558	1137	67
B4046	70	18	10.3	6.5	0.3	180	0.8	7.4	3.7	960	910	75
B4238	70	20	10.9	6.3	0.2	145	0.7	7.9	4.1	1060	1200	80
B3628	70	26	10.7	6.6	0.2	160	0.9	7.3	3.9	500	970	65
Mean	70	21	10.6	6.5	0.2	162	0.8	7.5	3.9	973	1027	73
B4046	70	16	10.0	7.2	0.6	190	0.2	7.8	4.0	766	724	102
B4238	86	22	10.4	6.0	0.6	140	0.2	8.0	4.4	612	944	82
B3628	85	20	10.4	7.5	0.3	170	0.2	7.3	3.6	510	939	98
Mean	80	19	10.3	6.9	0.5	167	0.2	7.7	4.0	629	869	94

## LITTTON BIOMETRICS, INC.

TABLE 6 (continued)

BLOOD BIOCHEMISTRY  
CONTROL

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUSIN (mg%)	TOTAL PROT. (gm%)	AL- BUMIN (gm%)	ALK. PHOS. (mU/ml)	LDH (mU/ml)	SGOT (mU/ml)
B3297 (F)	70	27	11.0	5.7	0.4	155	0.4	7.7	4.1	160	345	40
B4246 (F)	35	28	9.8	5.1	0.5	160	0.2	7.4	4.1	350	585	90
B3735 (F)	90	19	10.6	4.6	0.4	155	0.2	8.1	3.9	245	600	45
Mean	65	25	10.5	5.1	0.4	157	0.3	7.7	4.0	252	510	58
24 WEEKS PRE-DRUG												
B3297 (F)	62	22	10.0	5.4	0.3	145	0.7	6.9	3.7	113	570	48
B4246 (F)	58	24	10.0	5.4	0.4	160	0.8	7.2	3.8	350	600	68
B3735 (F)	52	19	10.5	4.3	0.4	165	1.0	8.1	3.6	198	555	45
Mean	57	22	10.2	5.0	0.4	157	0.8	7.4	3.7	220	575	54
22 WEEKS PRE-DRUG												
B3297 (F)	-	-	-	-	-	-	-	-	-	-	-	-
B4246 (F)	75	21	9.9	5.3	0.3	170	0.2	7.3	3.9	488	837	56
B3735 (F)	65	17	9.9	5.1	0.3	170	0.2	7.9	3.7	187	590	39
Mean	70	19	9.9	5.2	0.3	170	0.2	7.6	3.8	338	714	48
10 WEEKS PRE-DRUG												
B3297 (F)	94	28	10.2	5.1	0.2	180	0.3	7.2	3.5	120	355	32
B4246 (F)	50	24	9.1	5.1	0.4	120	0.2	6.8	3.8	320	380	45
B3735 (F)	81	18	9.6	4.3	0.4	140	0.2	7.8	3.5	240	1430	73
Mean	75	23	9.6	4.8	0.3	147	0.2	7.3	3.6	227	722	50

LITTON BIOMETRICS, INC.

TABLE 6 (continued)  
BLOOD BIOCHEMISTRY

MONKEY NO. AND SEX	GLU- COSE (mg%)	BUN (mg%)	Ca (mg%)	P (mg%)	URIC ACID (mg%)	CHOL. (mg%)	BILI- RUBIN (mg%)	CONTROL		ALK. PHOS. (mU/ml)	LDL (mU/ml)	SGOT (mU/ml)
								TOTAL PROT. (gm%)	AL- BUMIN: (gm%)			
<u>4 WEEKS</u>												
B3297 (F)	58	27	9.5	4.4	0.3	135	0.2	6.9	3.5	185	590	55
B4246 (F)	55	24	10.0	5.7	0.0	150	0.2	7.1	4.0	475	555	60
B3735 (F)	51	15	10.5	4.0	0.2	190	0.2	7.9	3.7	245	1185	50
Mean	55	22	10.1	4.7	0.2	158	0.2	7.3	3.7	302	777	55
<u>8 WEEKS</u>												
B3297 (F)	70	23	10.1	6.4	0.2	145	0.7	7.9	4.1	185	670	40
B4246 (F)	45	22	10.4	6.6	0.2	155	0.9	7.1	4.0	810	745	60
B3735 (F)	-	-	-	-	-	-	-	-	-	-	-	-
Mean	58	22	10.2	6.5	0.2	150	0.8	7.5	4.1	498	708	50
<u>13 WEEKS</u>												
B3297 (F)	60	18	9.2	4.8	0.4	158	0.2	7.2	3.6	206	494	48
B4246 (F)	55	28	9.8	5.7	0.3	139	0.1	6.7	3.7	456	578	104
B3735 (F)	66	16	9.4	4.6	0.2	146	0.2	7.8	3.6	228	996	86
Mean	60	21	9.5	5.0	0.3	148	0.2	7.2	3.6	297	689	79

TABLE 7  
URINALYSIS

RDX - 10 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B4050 (M)	B3543 (M)	B3406 (M)
pH	6.0	8.5	8.0
Specific Gravity	1.014	1.017	1.023
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Trace
White Blood Cells*	1-3	0-2	Rare
Red Blood Cells*	Negative	Negative	Rare
Epithelial Cells*	Occasional	Negative	Rare
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Little	Little	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	0-1 Coarsely Granular; Occ. Finely Granular	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDS - 10 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B4050 (M)	B3543 (M)	B3406 (M)
pH	8.0	8.0	7.0
Specific Gravity	1.024	1.019	1.021
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	1+	Negative	Small
White Blood Cells*	2-5	6-8	2-3
Red Blood Cells*	10-12	Negative	Rare
Epithelial Cells*	Frequent	Few	Occasional
Bacteria*	Occasional	Heavy	Negative
Amorphous Crystals*	Heavy	Heavy	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. L.S.**	Occ. U.A.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres; U.A. - Uric Acid.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX
	<u>B4050 (M)</u>
pH	9.0
Specific Gravity	1.027
Glucose	Negative
Albumin	Trace
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	6-8
Red Blood Cells*	Negative
Epithelial Cells*	Frequent
Bacteria*	Moderate
Amorphous Crystals*	Heavy
PO <sub>4</sub> *	Occasional
Oxalate*	Negative
Casts*	Negative
Other*	Occ. U.A.**

\*Microscopic (per high power field).

\*\*U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B4050 (M)	B3543 (M)	B3406 (M)
pH	8.0	6.5	6.5
Specific Gravity	1.005	1.016	1.015
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	1+	Negative	Negative
White Blood Cells*	8-10	2-3	0-1
Red Blood Cells*	4-6	Negative	Negative
Epithelial Cells*	Frequent	Occasional	Occasional
Bacteria*	Negative	Moderate	Negative
Amorphous Crystals*	Heavy	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Few L.S.**

\*Microscopic (per high power field).

\*\*L.S. = Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B4050 (M)	B3543 (M)	B3406 (M)
pH	9.0	8.0	9.0
Specific Gravity	1.027	1.029	1.016
Glucose	Negative	Negative	Negative
Albumin	300 mg	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	1-3	Negative	2-5
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	4-8	Occasional
Bacteria*	Moderate	Negative	Moderate
Amorphous Crystals*	Heavy	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Mod. L.S.**		

\*Microscopic (per high power field).  
 \*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG 13 WEEKS

	MONKEY NO. & SEX		
	B4050 (M)	B3543 (M)	B3406 (M)
pH	8.0	8.0	6.0
Specific Gravity	1.028	1.029	1.014
Glucose	Negative**	Negative	Negative
Albumin	Trace	Trace	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	2-5	20-25	0-2
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Frequent	Negative
Bacteria*	Negative	Occasional	Negative
Amorphous Crystals*	Moderate	Heavy	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.***	Freq. L.S.***	

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3733 (F)	B3609 (F)	B3739 (F)
pH	7.0	9.0	8.0
Specific Gravity	1.018	1.012	1.017
Glucose	Negative	Negative	Negative
Albumin	Negative	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	3-6	0-2
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Many	Negative
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Some	Moderate	Negative
PG <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Few L.S.**		Many L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3773 (F)	B3609 (F)	B3739 (F)
pH	8.0	9.0	8.0
Specific Gravity	1.006	1.020	1.015
Glucose	Negative	Negative	Negative
Albumin	Negative	30 mg	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	1+	Negative	Negative
White Blood Cells*	Occasional	12-15	2-3
Red Blood Cells*	2-5	Negative	Negative
Epithelial Cells*	Few	Frequent	Many
Bacteria*	Small	Negative	Small
Amorphous Crystals*	Moderate	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Few U.A.**

\*Microscopic (per high power field).

\*\*U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3733 (F)	B3609 (F)	B3739 (F)
pH	7.5	8.0	-
Specific Gravity	1.005	1.019	-
Glucose	Negative	Negative	-
Albumin	Negative	Trace	-
Ketone	Negative	Negative	-
Bile	Negative	Negative	-
Occult Blood	Negative	Negative	-
White Blood Cells*	Rare	0-1	-
Red Blood Cells*	Negative	Negative	-
Epithelial Cells*	Rare	Few	-
Bacteria*	Small	Large	-
Amorphous Crystals*	Moderate	Moderate	-
PO <sub>4</sub> *	Negative	Negative	-
Oxalate*	Negative	Negative	-
Casts*	Negative	Negative	-
Other*		Occ. L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3733 (F)	B3609 (F)	B3739 (F)
pH	7.0	8.0	-
Specific Gravity	1.015	1.019	-
Glucose	Negative	Negative	-
Albumin	Negative	Negative	-
Ketone	Negative	Negative	-
Bile	Negative	Negative	-
Occult Blood	Negative	Negative	-
White Blood Cells*	Rare	2-5	-
Red Blood Cells*	Negative	Negative	-
Epithelial Cells*	Rare	Frequent	-
Bacteria*	Small	Occasional	-
Amorphous Crystals*	Moderate	Heavy	-
PO <sub>4</sub> *	Negative	Negative	-
Oxalate*	Negative	Negative	-
Casts*	Negative	Negative	-
Other*		Occ. L.S.** Occ. U.A.	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres; U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

RDX - 10 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3733 (F)	B3609 (F)	B3739 (F)
pH	7.5	6.5	-
Specific Gravity	1.018	1.015	-
Glucose	Negative	Negative	-
Albumin	Negative	Negative	-
Ketone	Negative	Negative	-
Bile	Negative	Negative	-
Occult Blood	Negative	Negative	-
White Blood Cells*	1-3	1-3	-
Red Blood Cells*	Negative	Negative	-
Epithelial Cells*	Occasional	Occasional	-
Bacteria*	Occasional	Moderate	-
Amorphous Crystals*	Moderate	Little	-
PO <sub>4</sub> *	Negative	Negative	-
Oxalate*	Negative	Negative	-
Casts*	Negative	Negative	-
Other*	Freq. L.S.**		

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3952 (M)	B3563 (M)	B4093 (M)
pH	9.0	8.0	5.0
Specific Gravity	1.034	1.019	1.025
Glucose	Negative	Negative	Negative
Albumin	30 mg	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	4-5	Negative	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Occasional	Occasional
Bacteria*	Little	Negative	Negative
Amorphous Crystals*	Much	Negative	Large
PO <sub>4</sub> *	Negative	Occasional	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Many L.S.**	Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	<u>B3952 (M)</u>	<u>B3563 (M)</u>	<u>B4093 (M)</u>
pH	9.0	7.5	7.0
Specific Gravity	1.033	1.015	1.021
Glucose	Negative	Negative	Negative
Albumin	100 mg	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Heavy	Negative	Negative
White Blood Cells*	7-10	Rare	4-6
Red Blood Cells*	18-20	Negative	Negative
Epithelial Cells*	Frequent	Occasional	Occasional
Bacteria*	Small	Negative	Negative
Amorphous Crystals*	Moderate	Little	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Many	Negative
Casts*	Negative	Negative	Negative
Other*		Many L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      9 WEEKS PRE-DRUG

MONKEY NO. & SEX	
<u>B3952 (M)</u>	
pH	8.5
Specific Gravity	1.021
Glucose	Negative
Albumin	100 mg
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	4-6
Red Blood Cells*	Negative
Epithelial Cells*	Frequent
Bacteria*	Small
Amorphous Crystals†	Heavy
PO <sub>4</sub> *	Negative
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3952 (M)	B3563 (M)	B4093 (M)
pH	6.0	7.0	7.5
Specific Gravity	1.017	1.010	1.014
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	2+	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Slight Trace
White Blood Cells*	Rare	Negative	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Few	Occasional	Occasional
Bacteria*	Moderate	Negative	Negative
Amorphous Crystals*	Heavy	Moderate	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Few L.S.**	Few L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3952 (M)	B3563 (M)	B4093 (M)
pH	7.0	8.0	6.5
Specific Gravity	1.023	1.009	1.014
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	2-3	Rare
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Few	Rare	Negative
Bacteria*	Moderate	Negative	Small
Amorphous Crystals*	Heavy	Moderate	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3952 (M)	B3563 (M)	B4093 (M)
Specific Gravity	8.0	6.5	6.0
Glucose	1.030	1.006	1.009
Albumin	Negative	Negative	Negative
Ketone	Trace	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	2-4	2-3	Rare
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Negative	Negative
Bacteria*	Occasional	Moderate	Small
Amorphous Crystals*	Moderate	Moderate	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3599 (F)	B3891 (F)	B3718 (F)
Specific Gravity	6.0	5.0	6.0
Glucose	1.009	1.009	1.011
Albumin	Negative	Negative	Negative
Ketone	Trace	Negative	100 mg
Bile	Negative	Negative	Negative
Occult Blood	Small	Negative	3+
White Blood Cells*	0-3	1-3	8-10
Red Blood Cells*	0-1	Negative	TNTC
Epithelial Cells*	Few Squamous	Occasional	Occasional
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Some	Moderate	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. U.A.**	

\*Microscopic (per high power field).  
\*\*U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG 10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3599 (F)	B3891 (F)	B3718 (F)
pH	9.0	7.5	8.0
Specific Gravity	1.024	1.036	1.017
Glucose	Negative	Negative	Negative
Albumin	30 mg	100 mg	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Small	Heavy	1+
White Blood Cells*	5-6	18-20	6-8
Red Blood Cells*	3-4	TNTC	10-15
Epithelial Cells*	Frequent	Few	Many
Bacteria*	Heavy	Negative	Moderate
Amorphous Crystals*	Heavy	Heavy	Moderate
PO <sub>4</sub> *	Negative	Few	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Rare, Finely Negative Granular	

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX	
	B3891 (E)	B3718 (F)
pH	8.0	7.0
Specific Gravity	1.034	1.017
Glucose	Negative **	Negative
Albumin	30 mg	30 mg
Ketone	Negative	Negative
Bile	Negative	Negative
Occult Blood	1+	Negative
White Blood Cells*	2-4	6-8
Red Blood Cells*	10-12	Negative
Epithelial Cells*	Few	Frequent
Bacteria*	Small	Moderate
Amorphous Crystals*	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative
Oxalate*	Negative	Negative
Casts*	Negative	Negative
Other*		Occ. L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3599 (F)	B3891 (F)	B3718 (F)
pH	6.0	6.0	8.0
Specific Gravity	1.004	1.033	1.032
Glucose	Negative	Negative **	Negative
Albumin	Negative	Trace	Trace
Ketone	1+	2+	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	3-4	5-7	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Many	Few	Few
Bacteria*	Moderate	Moderate	Negative
Amorphous Crystals*	Moderate	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. U.A.*** Many L.S.***		

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*U.A. - Uric Acid; L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3599 (F)	B3891 (F)	B3718 (F)
pH	7.0	8.0	7.5
Specific Gravity	1.016	1.026	1.031
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Rare	Rare	1-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	5-15	0-2	Rare
Bacteria*	Light	Negative	Moderate
Amorphous Crystals*	Moderate	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Occ. U.A.**

\*Microscopic (per high power field).

\*\*U.A. - Uric Acid.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

RDX - 1 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3599 (F)	B3891 (F)	B3718 (F)
pH	7.0	6.5	7.0
Specific Gravity	1.012	1.022	1.021
Glucose	Negative	Negative	Negative
Albumin	Negative	30 mg	50 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	0-2	8-10	8-10
Red Blood Cells*	Negative	Negative	Occasional
Epithelial Cells*	Occasional	Occasional	Occasional
Bacteria*	Moderate	Small	Occasional
Amorphous Crystals*	Little	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.**	Occ. L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B4254 (M)	B3776 (M)	B3709 (M)
Specific Gravity	8.0	7.5	7.0
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	100 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Trace
White Blood Cells*	Negative	0.2	Occasional
Red Blood Cells*	Negative	Negative	1-3
Epithelial Cells*	Few	Negative	Rare
Bacteria*	Some	Negative	Negative
Amorphous Crystals*	Some	Little	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Heavy L.S.**	Occ. L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B4254 (M)	B3776 (M)	B3709 (M)
pH	8.0	9.0	8.0
Specific Gravity	1.021	1.023	1.032
Glucose	Negative	Negative	Negative**
Albumin	Negative	Trace	30 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Moderate	Negative
White Blood Cells*	4-6	2-4	2-4
Red Blood Cells*	Negative	10-12	Occasional
Epithelial Cells*	Occasional	Negative	Many
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Moderate	Little	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. T.P.***	Occ. T.P.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*T.P. - Triple Phosphate.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX	
	B3776 (M)	B3709 (M)
pH	9.0	7.0
Specific Gravity	1.020	1.012
Glucose	Negative	Negative
Albumin	30 mg	Negative
Ketone	Negative	Negative
Bile	Negative	Negative
Occult Blood	Negative	Negative
White Blood Cells*	2-4	2-3
Red Blood Cells*	Negative	Negative
Epithelial Cells*	Rare	Occasional
Bacteria*	Small	Small
Amorphous Crystals*	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative
Oxalate*	Negative	Negative
Casts*	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B4254 (M)	B3776 (M)	B3709 (M)
pH	5.0	8.0	7.0
Specific Gravity	1.007	1.02	1.025
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	Trace
Ketone	1+	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White blood Cells*	1-2	Negative	Negative
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Occasional	Occasional
Bacteria*	Moderate	Negative	Negative
Amorphous Crystals*	Moderate	Heavy	Moderate
Po <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Few L.S.**	Many L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URIMLYSIS

RDX - 0.1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B4254 (M)	B3776 (M)	B3709 (M)
pH	7.0	7.5	7.0
Specific Gravity	1.018	1.031	1.020
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	-	2-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	0-2	Occasional	Occasional
Bacteria*	Light	Occasional	Heavy
Amorphous Crystals*	Moderate	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Rare L.S.**	Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      13 WEEKS

	<u>MONKEY NO. &amp; SEX</u>		
	<u>B4254 (M)</u>	<u>B3776 (M)</u>	<u>B3709 (M)</u>
pH	9.0	7.0	6.5
Specific Gravity	1.015	1.029	1.018
Glucose	Negative	Negative	Negative
Albumin	30 mg	30 mg	Negative
Ketone	Negative	Negative	Negative
Bile	Negativ	Negative	Negative
Occult Blood	Negativ	Negative	Negative
White blood Cells*	0-2	Rare	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Frequent	Negative
Bacteria*	Moderate	Moderate	Occasional
Amorphous Crystals*	Heavy	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. L.S.**	Occ. L.S.**

\*Microscopic (per high power field).  
\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3613 (F)	B3646 (F)	B3617 (F)
pH	6.5	6.0	8.0
Specific Gravity	1.014	1.014	1.014
Glycos	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Trace	Trace
White Blood Cells*	2-3	6-8	1-3
Red Blood Cells*	Negative	2-3	Occasional
Epithelial Cells*	Frequent	Few	Many
Bacteria*	Occasional	Negative	Rare
Amorphous Crystals*	Heavy	Little	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

URINALYSIS

RDX - 0.1 MG/KG 10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3613 (F)	B3646 (F)	B3617 (F)
pH	7.5	8.0	8.0
Specific Gravity	1.031	1.026	1.020
Glucose	Negative	Negative	Negative
Albumin	30 mg	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	1+
White Blood Cells*	1-3	2-3	6-8
Red Blood Cells*	Negative	Negative	10-12
Epithelial Cells*	Few	Few	Frequent
Bacteria*	Moderate	Small	Moderate
Amorphous Crystals*	Heavy	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Many	Negative	Negative
Cysts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG 4 WEEKS

	MONKEY NO. & SEX		
	B3613 (F)	B3646 (F)	B3617 (F)
Cl.	6.0	9.0	8.0
Specific Gravity	1.035	1.027	1.025
Glucose	Negative	Negative**	Negative
Albumin	Trace	300 mg	Negative
Ketone	4+	4+	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	4+	1+
White Blood Cells*	2-4	6-8	0-1
Red Blood Cells*	Negative	8-10	25+
Epithelial Cells*	Few	Frequent	Occasional
Bacteria*	Negative	Moderate	Some
Amorphous Crystals*	Moderate	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Few	Negative
Casts*	Negative	0-2 Coarsely Granular	Negative
Other*	Freq. U.A.***	Few T.P.***	Many L.S.**

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*U. A. - Uric Acid; T.P. - Triple Phosphate; L.S. - Leucine Spheres.

TABLE 7 (continued)

URINALYSIS

RDX - 0.1 MG/KG 8 WEEKS

	MONKEY NO. & SEX		
	B3613 (F)	B3646 (F)	B3617 (F)
P.	8.0	6.5	7.5
Specific Gravity	1.032	1.035	1.031
Glucose	Negative	Negative	Negative**
Albumin	Negative	Trace	Trace
Ketone	Negative	Negative	Negative
Galle	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White blood Cells*	Negative	3-5	Rare
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Negative	Frequent	Rare
Bacteria*	Negative	Occasional	Negative
Amorphous Crystals*	Heavy	Much	Little
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. L.S.***	Rare L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

RDX - 0.1 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3613 (F)	B3646 (F)	B3617 (F)
pH	7.5	8.0	9.0
Specific Gravity	1.027	1.034	1.030
Glycose	Negative	Negative	Negative
Albumin	Negative	100 mg	100 mg
Ketone	Negative	Negative	Negative
Dile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White blood Cells*	Occasional	20-25	2-4
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Frequent	Occasional
Bacteria*	Little	Moderate	Moderate
Amorphous Crystals*	Little	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.**		Freq. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

LITTON BIOMETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3697 (M)	B3775 (M)	B4301 (M)
pH	5.0	9.0	8.0
Specific Gravity	1.021	1.034	1.034
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	1-3	1-3	0-1
Red Blood Cells*	Negative	Negative	0-1
Epithelial Cells*	Rare	Occasional	Occ. Squamous
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Little	Moderate	Some
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3697 (M)	B3775 (M)	B4301 (M)
pH	8.0	6.5	8.0
Specific Gravity	1.022	1.017	1.017
Glucose	Negative	Negative	Negative
Albumin	Trace	30 mg	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	1+	1+	Negative
White Blood Cells*	4-6	1-2	2-3
Red Blood Cells*	3-5	12-15	Negative
Epithelial Cells*	Occasional	Occasional	Frequent
Bacteria*	Negative	Small	Small
Amorphous Crystals*	Moderate	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      9 WEEKS PRE-DRUG

MONKEY NO. & SEX	
	B3775 (M)
pH	8.0
Specific Gravity	1.019
Glucose	Negative
Albumin	30 mg
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	2-4
Red Blood Cells*	Negative
Epithelial Cells*	Occasional
Bacteria*	Negative
Amorphous Crystals*	Little
PO <sub>4</sub> *	Occasional
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3697 (M)	B3775 (M)	B4301 (M)
pH	6.0	6.5	7.5
Specific Gravity	1.008	1.010	1.030
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	2-4	2-5	1-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Occasional	Negative
Bacteria*	Negative	Small	Negative
Amorphous Crystals*	Little	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Freq. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

LITTON BIOMETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3697 (M)	B3775 (M)	B4301 (M)
pH	7.0	8.0	9.0
Specific Gravity	1.027	1.029	1.035
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	30 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	Negative	8-10
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Negative	1-4 Squam.	Frequent
Bacteria*	Negative	Light	Small
Amorphous Crystals*	Heavy	Light	Heavy
PO <sub>4</sub> *	Few	Negative	Occasional
Oxalate*	Negative	Light	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3697 (M)	B3775 (M)	B4301 (M)
pH	7.5	7.5	8.0
Specific Gravity	1.013	1.032	1.058
Glucose	Negative	Negative	Negative
Albumin	Negative	30 mg	Trace
Ketone	Negative	Negative	Small
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Rare	10-12	1-2
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Frequent	Frequent
Bacteria*	Moderate	Moderate	Small
Amorphous Crystals*	Little	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Freq. L.S.**	Freq. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

URINALYSIS

TNT - 1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3857 (F)	B3516 (F)	B3928 (F)
pH	8.0	5.0	7.5
Specific Gravity	1.017	1.008	1.009
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Fats	Negative	Negative	Negative
Occult Blood	Small	Trace	Negative
White blood Cells*	0-1	2-5	1-3
Red Blood Cells*	0-3	Rare	Negative
Epithelial Cells*	Occ. Squamous Few		Frequent
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Negative	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Many L.S.**		

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3857 (F)	B3516 (F)	B3928 (F)
Specific Gravity	9.0	5.0	8.0
Glycos*	1.028	1.014	1.026
Albumin	Trace	Trace	100 mg
Ketone	Negative	Negative	Negative
Urine	Negative	Negative	Negative
Occult Blood	1+	Small	Heavy
White Blood Cells*	2-5	1-3	2-3
Red Blood Cells*	8-10	2-5	Many
Epithelial Cells*	Occasional	Few	Frequent
Bacteria*	Moderate	Small	Negative
Amorphous Crystals*	Heavy	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.**		

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX .....
	<u>B3928 (F)</u>
pH	9.0
Specific Gravity	1.022
Glycos.	Negative**
Albumin	Trace
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	2-4
Red Blood Cells*	Negative
Epithelial Cells*	Occasional
Bacteria*	Occasional
Amorphous Crystals*	Heavy
PO <sub>4</sub> *	Negative
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3857 (F)	B3516 (F)	B3928 (F)
Specific Gravity	7.5	7.0	7.5
Sugar	1.024	1.042	1.035
Glucose	Negative**	Negative**	Negative
Albumin	100 mg	Negative	Trace
Ketone	3+	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Trace
White Blood Cells*	0-2	0-1	0-1
Red Blood Cells*	Negative	Negative	25+
Epithelial Cells*	Rare	Occasional	Occasional
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Heavy	Moderate	Negative
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. U.A.***	Occ. L.S.***	

\*Microscopic (per high power field).

\*\*Positive for non-reducing substances.

\*\*\*U.A. - Uric Acid; L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3857 (F)	B3516 (F)	B3928 (F)
Specific Gravity	8.0	8.0	9.0
Glycos	1.031	1.024	1.027
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	0-2	1-2
RBC Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	0-2 Squam.	Occasional	Frequent
Bacteria*	Moderate	Negative	Moderate
Amorphous Crystals*	Moderate	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Few	Negative	Negative
C.s.t.s*	Negative	Negative	Negative
Other*			Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 1 MG/KG 13 WEEKS

	MONKEY NO. & SEX		
	B3857 (F)	B3515 (F)	B3928 (F)
-	8.0	6.5	8.0
Specific Gravity	1.031	1.021	1.031
Glucose*	Negative**	Negative	Negative
Albumin	100 mg	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	15-20	0-2	4-6
Red Blood Cells*	Negative	Negative	Negative
Cytological Cells*	Many	Negative	Frequent
Bacteria*	Occasional	Small	Negative
Amorphous Crystals*	Heavy	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. U.A.***	

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*U.A. - Uric Acid.

TABLE 7 (continued)

RIN LYS.

TNT - 0.1 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3782 (M)	B3773 (M)	B3427 (M)
-	9.0	9.0	8.0
Specific Gravity	1.022	1.023	1.015
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Ure	Negative	Negative	Negative
Occult Blood	Trace	Negative	2+
White Blood Cells*	Rare	0-2	Occasional
Red Blood Cells*	Very rare	Negative	10-12
Epithelial Cells*	Rare	Rare	Few
Bacteria*	Negative	Negative	Moderate
Amorphous Crystals*	Little	Little	Heavy
PO <sub>4</sub> *	Negative	Negative	Occasional
Oxalate*	Negative	Negative	Negative
Cysts*	Negative	Negative	Negative
Other*	Few L.S.**		

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URIN LYSIS

TNT - 0.1 MG/KG 10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3782 (M)	B3773 (M)	B3427 (M)
Specific Gravity	7.5	8.0	6.0
Glucose	1.028	1.013	1.021
Albumin	Negative	Negative	" sensitive
Ketone	Trace	Negative	Negative
Sugar	Negative	Negative	Negative
Occult Blood	1+	1-3	Trace
White Blood Cells*	3-4	Negative	2-5
Red Blood Cells*	10-12	Occasional	3-4
Epithelial Cells*	Negative	Negative	Rare
Bacteria*	Negative	Negative	Heavy
Amorphous Crystals*	Heavy	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Cysts*	Negative	Negative	Negative
Other*	Few L.S.**		Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

URINALYSIS

TNT - 0.1 MG/KG 9 WEEKS PRE-DRUG

	MONKEY NO. & SEX
	<u>R3782 (M)</u>
Specific Gravity	9.0
Glucose	Negative
Albumin	Negative
Ketone	Negative
Bile	Negative
Occult Blood	Trace
White Blood Cells*	3-4
Red Blood Cells*	0-2
Epithelial Cells*	Few
Bacteria*	Negative
Amorphous Crystals*	Moderate
PO <sub>4</sub> *	Negative
Oxalate*	Negative
Cysts*	Negative

\*Microscopic (per high power field).

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG 4 WEEKS

	MONKEY NO. & SEX		
	B3782 (M)	B3773 (M)	B3427 (M)
pH	6.5	7.0	8.0
Specific Gravity	1.013	1.015	1.028
Glucose	Negative**	Negative	Negative
Albumin	Negative	Negative	30 mg
Ketone	Trace	1+	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	3-4	2-3	Negative
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Few	Occasional	Occasional
Bacteria*	Moderate	Moderate	Some
Amorphous Crystals*	Heavy	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Many L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*L.S. - Leucine Spheres.

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3782 (M)	B3773 (M)	B3427 (M)
pH	8.0	8.0	6.5
Specific Gravity	1.026	1.032	1.024
Glucose	Negative	Negative	Negative
Albumin	Negative	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	Negative	Negative	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	0-2 Squam.	2-4 Squam.	Negative
Bacteria*	Negative	Negative	Moderate
Amorphous Crystals*	Heavy	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG 13 WEEKS

	MONKEY NO. & SEX		
	B3782 (M)	B3773 (M)	B3427 (M)
pH	7.5	8.0	6.5
Specific Gravity	1.026	1.024	1.024
Glucose	Negative	Negative**	Negative
Albumin	Trace	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	2-4	1-4	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Frequent	Rare	Negative
Bacteria*	Occasional	Moderate	Moderate
Amorphous Crystals*	Heavy	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.*** Occ. S.C.		

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*L. S. - Leucine Spheres; S.C. - Sulfa Crystals.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG 24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3720 (F)	B3608 (F)	B3863 (F)
-?	9.0	7.0	7.5
Specific Gravity	1.016	1.007	1.026
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Trace	Negative
White Blood Cells*	0-1	4-6	1-2
Red Blood Cells*	0-1	0-2	Negative
Epithelial Cells*	Many	Occasional	Occasional
Bacteria*	Negative	Heavy	Negative
Amorphous Crystals*	Negative	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Occasional	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG 10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3720 (F)	B3608 (F)	B3863 (F)
Specific Gravity	9.0	9.0	6.0
Glucose	Negative**	Negative	Negative
Albumin	300 mg	Trace	Negative
Ketone	Negative	Negative	1+
Bile	Negative	Negative	Negative
Occult Blood	3+	Small	Small
White Blood Cells*	1-3	2-5	1-4
Red Blood Cells*	18-20 occ. clumps	Rare	2-5
Epithelial Cells*	Frequent	Frequent	Frequent
Bacteria*	Negative	Moderate	Negative
Amorphous Crystals*	Moderate	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Few
Casts*	0-2 Finely Granular	Negative	Negative
Other*		Occ. U.A.***	

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG 9 WEEKS PRE-DRUG

MONKEY NO. & SEX	
B372Q (E)	
Specific Gravity	9.0
Glycos.	1.031
Albumin	Negative
Ketone	30 mg
Bile	Negative
Occult Blood	Moderate
White Blood Cells*	0-1
Red Blood Cells*	None
Epithelial Cells*	4-1
Bacteria*	Negative
Amorphous Crystals*	Moderate
PO <sub>4</sub> *	Negative
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3720 (F)	B3608 (F)	B3863 (F)
pH	6.0	7.5	8.0
Specific Gravity	1.009	1.009	1.032
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	Negative
Ketone	1+	Trace	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	1-3	0-2	Negative
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Few	Negative	Occasional
Bacteria*	Small	Moderate	Negative
Amorphous Crystals*	Moderate	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Many
Casts*	Negative	Negative	Negative
Other*	-	Few U.A.**	Many L.S.**

\*Microscopic (per high power field).  
 \*\*U.A. - Uric Acid; L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.1 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3720 (F)	B3608 (F)	B3863 (F)
pH	8.0	8.0	8.0
Specific Gravity	1.034	1.028	1.030
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Trace	Negative	Negative
White Blood Cells*	1-3	0-1	2-4
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	2-5 Squam.	1-3 Squam.	Occasional
Bacteria*	Light	Negative	Small
Amorphous Crystals*	Heavy	Light	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Few	Negative
Casts*	Negative	Negative	Negative
Other*			Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT ~ 0.1 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3720 (F)	B3608 (F)	B3863 (F)
pH	8.0	6.5	6.5
Specific Gravity	1.030	1.011	1.029
Glucose	Negative	Negative**	Negative
Albumin	30 mg	Trace	Trace
Ketone	Negative	Negative	Negative
Dile	Negative	Negative	Negative
Occult Blood	Negative	Trace	Negative
White blood Cells*	1-3	2-3	1-3
Red Blood Cells*	Negative	2-4	Negative
Epithelial Cells*	Frequent	Occasional	Occasional
Bacteria*	Moderate	Small	Negative
Amorphous Crystals*	Heavy	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.***		Occ. L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3559 (M)	B3848 (M)	B4239 (M)
pH	8.0	8.0	7.0
Specific Gravity	1.022	1.021	1.022
Glucose	Negative**	Negative	Negative
Albumin	30 mg	30 mg	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Trace	Negative
White Blood Cells*	0-2	0-2	0-1
Red Blood Cells*	Negative	Rare	Negative
Epithelial Cells*	Occasional	Occasional	Occ. Squam.
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Little	Moderate	Large
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Freq. L.S.***		

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

LITCO BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SLX		
	B3559 (M)	B3848 (M)	B4239 (M)
pH	7.0	6.5	8.0
Specific Gravity	1.027	1.026	1.015
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Small	Small	Negative
White Blood Cells*	1-3	Rare	Rare
Red Blood Cells*	3-5	Rare	Negative
Epithelial Cells*	Few	Occasional	Rare
Bacteria*	Negative	Negative	Moderate
Amorphous Crystals*	Little	Little	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. U.A.**	Occ. U.A.**	

\*Microscopic (per high power field).

\*\*U.A. ~ Uric Acid.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      4 WEEKS

	MONKEY NO. & SEX		
	B3550 (M)	B3948 (M)	B4239 (M)
pH	6.0	6.5	8.0
Specific Gravity	1.021	1.012	1.035
Glucose	Negative**	Negative	Negative
Albumin	Trace	Negative	Negative
Ketone	1+	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	2-3	0-2	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Occasional	Occasional
Bacteria*	Moderate	Some	Negative
Amorphous Crystals*	Moderate	Negative	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Few	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Occ. L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

LITTON BIONETICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      8 WEEKS

	MONKEY NO. & SEX		
	B3559 (M)	B3848 (M)	B4239 (M)
pH	7.0	7.0	8.0
Specific Gravity	1.028	1.017	1.034
Glucose	Negative	Negative	Negative**
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	0-2	3-6	8-6
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Negative	Few	Frequent
Bacteria*	Light	Moderate	Moderate
Amorphous Crystals*	Moderate	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.*** Few L.S.*** Occ. U.A.		

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*L.S. - Leucine Spheres; U.A. - Uric Acid.

LITTON BIOMETRICS, INC.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      13 WEEKS

	MONKEY NO. & SEX		
	B3559 (M)	B384f (M)	B4239 (M)
pH	8.0	6.5	6.5
Specific Gravity	1.008	1.008	1.033
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	4-6	1-3	0-2
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Occasional	Frequent
Bacteria*	Heavy	Moderate	Negative
Amorphous Crystals*	Moderate	Moderate	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Freq. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3818 (F)	B3867 (F)	B3860 (F)
pH	8.0	6.0	8.0
Specific Gravity	1.026	1.017	1.020
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	30 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Trace
Occult Blood	Negative	Negative	0-1
White Blood Cells*	Negative	2-J	Rare
Red Blood Cells*	Negative	Negative	Occasional
Epithelial Cells*	Large Squamous	Frequent	Negative
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Large	Heavy	Much
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Few L.S.**	Few U.A.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres; U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3818 (F)	B3867 (F)	B3860 (F)
pH	6.0	6.0	8.0
Specific Gravity	1.010	1.010	1.028
Glucose	Negative	Negative	Negative
Albumin	Negative	Trace	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Heavy	Negative
White Blood Cells*	1-3	2-3	6-8
Red Blood Cells*	Negative	TNTC	Negative
Epithelial Cells*	Frequent	Rare	Many
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Moderate	Moderate	Little
PO <sub>4</sub> *	Negative	Negative	Frequent
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      9 WEEKS PRE-DRUG

	<u>MONKEY NO. &amp; SEX</u>
	<u>B3867 (F)</u>
~	6.5
Specific Gravity	1.011
Glucose	Negative**
Albumin	30 mg
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	8-10 w/clumping
Red Blood Cells*	Negative
Epithelial Cells*	Few
Bacteria*	Negative
Amorphous Crystals*	Little
PO <sub>4</sub> *	Negative
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG 4 WEEKS

	MONKEY NO. & SEX		
	B3818 (F)	B3867 (F)	B3860 (F)
pH	5.0	8.0	9.0
Specific Gravity	1.033	1.011	1.030
Glucose	Negative**	Negative	Negative
Albumin	30 mg	100 mg	Trace
Ketone	4+	2+	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	4+	1+
White Blood Cells*	2-4	6-8	0-1
Red Blood Cells*	Negative	TNTC	Negative
Epithelial Cells*	Frequent	Frequent	Occasional
Bacteria*	Moderate	Small	Negative
Amorphous Crystals*	Heavy	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Many
Casts*	Negative	Negative	Negative
Other*			Occ. L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG      8 WEEKS

	<u>MONKEY NO. &amp; SEX</u>		
	<u>B3818 (F)</u>	<u>B3867 (F)</u>	<u>B3860 (F)</u>
pH	8.0	8.5	9.0
Specific Gravity	1.032	1.029	1.023
Glucose	Negative	Negative	Negative
Albumin	Trace	Negative	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Trace	Negative	Negative
White Blood Cells*	1-2	2-5	4-8
Red Blood Cells*	2-7	Negative	Negative
Epithelial Cells*	Negative	Frequent	Few
Bacteria*	Large	Negative	Heavy
Amorphous Crystals*	Negative	Much	Heavy
PO <sub>4</sub> *	Negative	Occasional	Negative
Oxalate*	Negative	Occasional	Negative
Casts*	Negative	Negative	Negative
Other*			Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

TNT - 0.02 MG/KG 13 WEEKS

	MONKEY NO. & SEX		
	B3818 (F)	B3867 (F)	B3860 (F)
pH	7.5	7.5	9.0
Specific Gravity	1.027	1.032	1.028
Glucose	Negative	Negative**	Negative
Albumin	200 mg	30 mg	50 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	1+	Negative	Negative
White Blood Cells*	6-8	18-20	1-3
Red Blood Cells*	4.7	Occasional	Negative
Epithelial Cells*	Few	Negative	Few
Bacteria*	Occasional	Little	Moderate
Amorphous Crystals*	Heavy	Heavy	Heavy
FO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*	Occ. L.S.***		

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

CONTROL      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B4046 (M)	B4238 (M)	B3628 (M)
Ph	9.0	8.0	9.0
Specific Gravity	1.016	1.028	1.026
Glucose	Negative	Negative	Negative
Albumin	Trace	30 mg	Trace
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	5-6	1-3	0-1
Red Blood Cells*	Negative	0-1	Negative
Epithelial Cells*	Occasional	Few Squam.	Occ. Squam.
Bacteria*	Negative	Negative	Negative
Amorphous Crystals*	Heavy	Some	Negative
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

CONTROL - 10 WEEKS PRE-DRUG

	<u>MONKEY NO. &amp; SEX</u>		
	<u>B4046 (M)</u>	<u>B4238 (M)</u>	<u>B3628 (M)</u>
pH	9.0	9.0	9.0
Specific Gravity	1.032	1.029	1.033
Glucose	Negative	Negative	Negative
Albumin	100 mg	30 mg	30 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Small	Negative	1+
White Blood Cells*	2-4	2-4	3-5
Red Blood Cells*	10-12	Negative	10-12
Epithelial Cells*	Frequent	Few	Few
Bacteria*	Negative	Small	Small
Amorphous Crystals*	Little	Little	Moderate
PO <sub>4</sub> *	Negative	Occasional	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINALYSIS

CONTROL      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX	
	B4046 (M)	B3628 (M)
pH	8.0	8.5
Specific Gravity	1.031	1.015
Glucose	Negative**	Negative
Albumin	Negative	30 mg
Ketone	Negative	Negative
Bile	Negative	1+
Occult Blood	1+	3-5
White blood Cells*	2-3	10-12
Red Blood Cells*	3-5	Few
Epithelial Cells*	Rare	Small
Bacteria*	Negative	Moderate
Amorphous Crystals*	Little	Moderate
PO <sub>4</sub> *	Negative	Negative
Oxalate*	Negative	Negative
Casts*	Negative	Negative

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

TABLE 7 (continued)

## URINALYSIS

CONTROL      4 WEEKS

	MONKEY NO. & SEX		
	B4046 (M)	B4238 (M)	B3628 (M)
pH	5.0	7.0	6.5
Specific Gravity	1.006	1.028	1.015
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	Negative
Ketone	1+	4+	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White blood Cells*	1-4	2-4	Rare
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occ. sional	Rare	Negative
Bacteria*	Moderate	Small	Negative
Amorphous Crystals*	Moderate	Moderate	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. U.A.**	

\*Microscopic (per high power field).

\*\*U.A. - Uric Acid.

TABLE 7 (continued)

## URINALYSIS

CONTROL      8 WEEKS

	MONKEY NO. & SEX		
	B4046 (M)	B4238 (M)	B3628 (M)
Specific Gravity	8.0	7.0	7.0
Glucose	0.011	1.034	1.015
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	0-2	0-3	0-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Negative	Negative	Occasional
Bacteria*	Moderate	Negative	Moderate
Amorphous Crystals*	Little	Heavy	Moderate
PO <sub>4</sub> *	Negative	Few	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*			Few L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

CONTROL      13 WEEKS

	MONKEY NO. & SEX		
	B4046 (M)	B4238 (M)	B3628 (M)
pH	7.5	6.5	7.0
Specific Gravity	1.020	1.010	1.030
Glucose	Negative	Negative	Negative
Albumin	Trace	Trace	30 mg
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	3-5	6-8	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Rare	Few	Occasional
Bacteria*	Heavy	Moderate	Occasional
Amorphous Crystals*	Moderate	Heavy	Heavy
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Occ. L.S.**	Occ. L.S.**

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

URINALYSIS

CONTROL      24 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3297 (F)	B4246 (F)	G3735 (F)
Specific Gravity	9.0	6.0	7.5
Glucose	1.018	1.027	1.021
Albumin	Negative	Negative	Negative
Ketone	30 mg	Trace	Negative
Bile	Negative	Negative	Negative
Occult Blood	Trace	Small	Trace
White Blood Cells*	2-4	0-1	0-1
Red Blood Cells*	Rare	0-1	Rare
Epithelial Cells*	Few	Negative	Few
Bacteria*	Occasional	Negative	Occasional
Amorphous Crystals*	Heavy	Negative	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

TABLE 7 (continued)

## URINE

CONTROL      10 WEEKS PRE-DRUG

	MONKEY NO. & SEX		
	B3297 (F)	B4246 (F)	B3735 (F)
pH	7.5	9.0	7.5
Specific Gravity*	1.026	1.027	1.025
Glucose	Negative	Negative	Negative**
Albumin	30 mg	30 mg	Negative
Ketone	Negative	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Moderate	2+	Trace
White Blood Cells*	6-8	2-3	8-10
Red Blood Cells*	10-12	12-14	Rare
Epithelial Cells*	Few	Occasional	Few
Bacteria*	Negative	Small	Moderate
Amorphous Crystals*	Moderate	Moderate	Little
PO <sub>4</sub> *	Occasional	Few	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

TABLE 7 (continued)

## URINALYSIS

CONTROL      9 WEEKS PRE-DRUG

	MONKEY NO. & SEX
	<u>B4246 (F)</u>
Specific Gravity	9.0
Glucose	Negative**
Albumin	30 mg
Ketone	Negative
Bile	Negative
Occult Blood	Negative
White Blood Cells*	10-12
Red Blood Cells*	Negative
Epithelial Cells*	Few
Bacteria*	Occasional
Amorphous Crystals*	Heavy
PO <sub>4</sub> *	Occasional
Oxalate*	Negative
Casts*	Negative

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substance.

TABLE 7 (continued)

## URINALYSIS

CONTROL      4 WEEKS

	MONKEY NO. & SEX		
	B3297 (F)	B4246 (F)	B3735 (F)
pH	8.0	8.0	7.0
Specific Gravity	1.031	1.021	1.004
Glucose	Negative**	Negative	Negative
Albumin	30 mg	Negative	Negative
Ketone	4+	Negative	Negative
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Trace
White Blood Cells*	2-4	0-1	0-1
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Few	Few	Occasional
Bacteria*	Negative	Negative	Many
Amorphous Crystals*	Heavy	Moderate	Moderate
PO <sub>4</sub> *	Frequent	Negative	Negative
Oxalate*	Negative	Many	Negative
Casts*	Negative	Negative	Negative
Other*		Few L.S.***	Occ. L.S.***

\*Microscopic (per high power field).

\*\*Positive for non-glucose reducing substances.

\*\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALLY'S

CONTROL      8 WEEKS

	MONKEY NO. & SEX		
	B3297 (F)	B4246 (F)	B3735 (F)
Sol.	7.0	8.0	6.0
Specific Gravity	1.039	1.021	1.003
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	Small	Negative	Negative
Urine	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	0-2	2-3	1-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	5-15 Squam.	Few	Occasional
Bacteria*	Negative	Negative	Moderate
Amorphous Crystals*	Little	Small	Moderate
PO <sub>4</sub> *	Few	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative
Other*		Few L.S.**	

\*Microscopic (per high power field).

\*\*L.S. - Leucine Spheres.

TABLE 7 (continued)

## URINALYSIS

CONTROL      13 WEEKS

	MONKEY NO. & SEX		
	B3297 (F)	B4246 (F)	B3735 (F)
pH	8.0	6.5	6.5
Specific Gravity	1.021	1.027	1.014
Glucose	Negative	Negative	Negative
Albumin	Negative	Negative	Negative
Ketone	Negative	Negative	Small
Bile	Negative	Negative	Negative
Occult Blood	Negative	Negative	Negative
White Blood Cells*	4-6	2-5	1-3
Red Blood Cells*	Negative	Negative	Negative
Epithelial Cells*	Occasional	Frequent	Occasional
Bacteria*	Occasional	Negative	Occasional
Amorphous Crystals*	Moderate	Heavy	Moderate
PO <sub>4</sub> *	Negative	Negative	Negative
Oxalate*	Negative	Negative	Negative
Casts*	Negative	Negative	Negative

\*Microscopic (per high power field).

LITTON BIONETICS, INC.

TABLE 8

URINE GLUTAMIC-OXALOACETIC TRANSAMINASE  
(I.U.)

MONKEY NO. AND SEX	PRE-DRUG			WEEKS OF DRUG ADMINISTRATION		
	24 Wks	10 Wks	9 Wks	4	8	13
<u>RDX - 10 MG/KG</u>						
B4050 (M)	62	172	80	51	86*	100*
B3543 (M)	24	39	105	45	89*	148*
B3406 (M)	68	30	90	99	65	39
Mean	51	80	88	65	80	95
B3733 (F)	33	86	27	67	86	137
B3609 (F)	30	54	68	68	59	33
B3739 (F)	24	65	111	Dead	Dead	Dead
Mean	29	68	68	68	72	85
<u>RDX - 1 MG/KG</u>						
B3952 (M)	51	71	86	83	77*	138
B3563 (M)	45	24	59	22	33	22
B4093 (M)	11	48	83	36	65	21
Mean	36	48	76	47	58	60
B3599 (F)	27	77	71	83	148	39
B3891 (F)	68	122	111	45	154*	68
B3718 (F)	59	80	80	83	111	95
Mean	51	93	87	70	138	67
<u>RDX - 0.1 MG/KG</u>						
B4254 (M)	21	68	89	39	53*	122
B3776 (M)	30	21	80	74	91	83
B3709 (M)	36	45	83	57	74	92
Mean	29	44	84	56	74	99
B3613 (F)	36	186	83	333	68	83
B3646 (F)	59	105	137	319	111	143
B3617 (F)	71	86	62	74	122	95
Mean	55	126	94	242	100	107

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINE GLUTAMIC-OXALOACETIC TRANSAMINASE  
(I.U.)

MONKEY NO. AND SEX	24 Wks	PRE-DRUG		WEEKS OF DRUG ADMINISTRATION		
		10 Wks	9 Wks	4	8	13
<u>TNT - 1 MG/KG</u>						
B3697 (M)	19	62	21	45	22	77
B3775 (M)	77	65	65	30	71	165
B4301 (M)	36	148	86	74	143	137
Mean	44	92	57	50	78	126
B3857 (F)	39	95	111	271	105	68
B3515 (F)	33	148	92	83	74	57
B3928 (F)	39	74	65	89	89	62
Mean	37	106	89	148	89	62
<u>TNT - 0.1 MG/KG</u>						
B3782 (M)	39	221	86	48	77	95
B3773 (M)	80	27	54	54	122	95
B3427 (M)	19	30	77	122	51	62
Mean	46	92	72	74	83	84
B3720 (F)	22	137	92	57	92	143
B3508 (F)	17	57	86	74	74	116
B3863 (F)	62	62	53	73	111	86
Mean	34	85	77	68	92	115
<u>TNT - 0.02 MG/KG</u>						
B3559 (M)	30	68	68	51	83	62
B3848 (M)	11	65	77	42	65	19
B4239 (M)	57	54	57	92	111	80
Mean	32	62	67	62	86	54
B3818 (F)	33	86	89	45	207*	291*
B3867 (F)	59	42	70	77	89	89
B3860 (F)	22	68	95	92	111	89
Mean	38	65	94	71	136	156

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 8 (continued)

URINE GLUTAMIC-OXALOACETIC TRANSAMINASE  
(I.U.)

<u>MONKEY NO. AND SEX</u>	<u>PRE-DRUG</u>			<u>WEEKS OF DRUG ADMINISTRATION</u>		
	<u>24 Wks</u>	<u>10 Wks</u>	<u>9 Wks</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>CONTROL</u>						
B4046 (M)	30	86	127	39	62	137
B4238 (M)	30	111	138	207	51	111
B3628 (M)	71	111	59	71	68	92
Mean	44	102	108	106	60	113
B3297 (F)	45	68	74	214	86	179
B4246 (F)	74	68	51	100	68	59
B3735 (F)	74	71	36	36	17	62
Mean	64	69	54	116	57	100

TABLE 9

SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)  
Half-Time (minutes)

MONKEY NO. AND SEX	PRE-DRUG		WEEKS OF DRUG ADMINISTRATION		
	22 Wks	10 Wks	4	8	13
<u>RDX - 10 MG/KG</u>					
B4050 (M)	5.10	3.55	3.35	3.05	4.40
B3543 (M)	2.55	2.40	2.25	2.40	2.50
B3406 (M)	2.15	2.15	2.20	2.45	2.20*
Mean	3.26	2.70	2.60	2.63	3.03
B3733 (F)	2.25	2.15	2.15	2.05	2.05
B3609 (F)	2.50*	3.00*	2.10	2.55	3.25
B3739 (F)	2.00	3.30	Dead	Dead	Dead
Mean	2.25	2.82	2.12	2.30	2.65
<u>RDX - 1 MG/KG</u>					
B3952 (M)	2.35	2.20	2.15	1.30*	2.00
B3563 (M)	2.10	3.50	2.30	2.15	2.00
B4093 (M)	2.20	4.25	2.25*	2.25	2.15*
Mean	2.22	3.32	2.23	1.90	2.05
B3599 (F)	1.35	4.20*	2.15	2.40	2.05
B3891 (F)	3.20	3.35	2.10	2.10	3.00
B3718 (F)	2.15	2.30	2.30*	2.20	2.25*
Mean	2.23	3.28	2.18	2.23	2.43
<u>RDX - 0.1 MG/KG</u>					
B4254 (M)	2.30	2.05	2.30	2.00	2.15
B3776 (M)	2.10	4.25	2.10	2.35	3.25
B3709 (M)	2.10	2.15	2.05*	2.00	2.35
Mean	2.16	2.82	2.15	2.12	2.58
B3613 (F)	2.30	3.15	2.05	2.45	2.35
B3646 (F)	3.30*	3.40	2.10	2.40	4.30
B3617 (F)	2.20	3.15	1.50*	1.45*	2.30*
Mean	2.60	3.23	1.88	2.10	2.58

\*Repeat values.

TABLE 9 (continued)  
 SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)  
 Half-Time (minutes)

MONKEY NO. AND SEX	PRE-DRUG		WEEKS OF DRUG ADMINISTRATION		
	22 Wks	10 Wks	4	8	13
<u>TNT - 1 MG/KG</u>					
B3697 (M)	2.40	4.20	3.50	2.30	3.20
B3775 (M)	2.50	2.25	2.45	3.00	2.40
B4301 (M)	2.40	2.05	2.15*	3.00	2.00
Mean	2.43	2.83	2.70	2.76	2.53
B3857 (F)	3.05	4.10	2.45	2.45	2.15
B3516 (F)	2.40	4.00	3.20*	2.05	3.20
B3928 (F)	2.00	3.20	2.10*	1.55*	2.05
Mean	2.48	3.76	2.58	2.02	2.46
<u>TNT - 0.1 MG/KG</u>					
B3782 (M)	2.05*	3.20	2.05	2.00	2.20
B3773 (M)	2.25	4.25	3.00*	2.35	2.40
B3427 (M)	2.25	3.20*	2.20	2.45	3.20
Mean	2.18	3.55	2.42	2.26	2.60
B3720 (F)	2.30	2.30	2.20	1.50*	2.05
B3668 (F)	2.25	3.20	3.20	2.25	2.20
B3863 (F)	2.50	2.45	2.10	3.20	4.30
Mean	2.35	2.65	2.50	2.32	2.85
<u>TNT - 0.02 MG/KG</u>					
B3559 (M)	3.25	3.30	2.45*	2.15	2.45
B3848 (M)	2.15	2.35	2.30*	2.25	2.55*
B4239 (M)	2.35	3.00	2.45	2.25	2.45
Mean	2.58	2.88	2.40	2.22	2.48
B3818 (F)	3.00	2.15*	2.30	2.30*	3.05
B3867 (F)	2.15*	2.10*	2.35	1.40*	2.20
B3860 (F)	2.25*	2.20	2.05	2.40	2.40
Mean	2.46	2.15	2.23	2.03	2.55

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 9 (continued)

SULFOBROMOPHTHALEIN, U.S.P., DYE CLEARANCE TEST (BSP)  
Half-Time (minutes)

<u>MONKEY NO. AND SEX</u>	<u>PRE-DRUG</u>		<u>WEEKS OF DRUG ADMINISTRATION</u>		
	<u>22 Wks</u>	<u>10 Wks</u>	<u>4</u>	<u>8</u>	<u>13</u>
<u>CONTROL</u>					
B4046 (M)	2.50	2.55*	2.25	2.50	3.45
B4238 (M)	2.40	2.15	2.15	3.05	3.20
B3628 (M)	2.05	2.50	2.35	2.00*	2.00
Mean	2.32	2.40	2.25	2.52	2.83
B3297 (F)	2.15	3.20	2.30*	2.55	3.10
B4246 (F)	3.00	3.05	2.45	2.35	3.20
B3735 (F)	2.00	2.00*	2.25*	2.20	2.20*
Mean	2.38	2.75	2.33	2.36	2.83

\*Repeat values.

LITTON BIONETICS, INC.

TABLE 10

RDX AND TNT IN PLASMA  
( $\mu\text{g}/\text{ml}$  of plasma)

DOSE LEVEL	MONKEY NO.	INTERVAL					
		Date	30-Day	Date	Convulsive Events	60-Day	Date
High RDX	B3733		0.30	6/26	3.22	0.41	8/9
	B4050		0.65			0.64	8/13
	B3543		0.58			0.39	8/9
	B3739	6/12	2.70	6/13	2.0		
	B3406		1.42			0.31	8/8
	B3609		0.84	7/2	3.7	0.08	8/8
Med. RDX		All values were 0.02 $\mu\text{g}/\text{ml}$ .					
Low RDX		All values were 0.02 $\mu\text{g}/\text{ml}$ .					
High TNT		All values were below 5 $\mu\text{g}/\text{ml}$ .					
Med. TNT		All values were below 5 $\mu\text{g}/\text{ml}$ .					
Low TNT		All values were below 5 $\mu\text{g}/\text{ml}$ .					
Control		All values were below 5 $\mu\text{g}/\text{ml}$ .					

TABLE 11

ORGAN WEIGHTS  
(grams)

ANIMAL NUMBER	THYROID	HEART	LIVER	RIGHT KIDNEY	LEFT KIDNEY	RIGHT ADRENAL	LEFT ADRENAL
<b>Control</b>							
B4238	.34	9.17	59.0	6.02	5.41	.23	.21
B4046	.24	7.10	59.0	5.63	5.53	.30	.23
B3628	.64	21.47	141.0	12.71	13.06	.34	.27
B3735	.27	8.51	72.0	5.94	5.87	.20	.22
B3297	.57	11.64	66.0	7.61	7.72	.24	.21
B4246	.23	7.65	46.0	4.86	5.39	.24	.21
<b>Low RDX</b>							
B3709	.31	20.00	115.0	10.34	9.13	.47	.32
B3776	.31	10.75	81.0	7.51	7.24	.23	.19
B4254	.20	9.61	58.0	5.07	5.22	.34	.24
B3613	.17	9.35	58.0	6.38	6.59	.27	.22
B3617	.39	9.91	64.0	6.16	5.89	.29	.24
B3646	.31	11.36	74.0	7.23	6.96	.31	.17
<b>Med. RDX</b>							
B3563	.28	10.47	88.0	6.50	6.59	.27	.23
B3952	.53	17.82	107.0	10.20	9.70	.31	.30
B4093	.28	9.08	58.0	5.80	5.81	.24	.22
B3891	.22	9.10	69.0	6.70	6.84	.31	.22
B3718	.35	10.77	65.0	6.31	6.30	.27	.26
B3599	.41	11.15	84.0	6.18	6.46	.23	.21
<b>High RDX</b>							
B4050	.21	10.31	71.0	7.06	7.88	.27	.21
B3406	.38	14.13	102.0	7.52	7.90	.56	.38
B3543	.52	15.15	110.0	9.17	8.48	.47	.39
B3739*	.32	7.83	37.9	4.72	5.41	.33	.42
B3733	.19	8.81	77.0	7.72	8.77	.40	.23
B3609	.25	7.87	77.0	5.62	5.41	.30	.22
<b>Low TNT</b>							
B3848	.50	14.13	91.0	7.32	7.51	.43	.32
B3559	.32	12.79	89.0	8.09	7.85	.36	.23
B4239	.14	12.36	96.0	7.54	7.23	.31	.24
B3860	.42	7.99	49.0	4.31	4.41	.21	.14
B3867	.47	13.39	-	8.80	8.40	.41	.32
B3818	.24	5.64	56.0	5.04	4.64	.28	.27
<b>Med. TNT</b>							
B3762	.37	15.54	86.0	9.54	9.50	.51	.38
B3773	.21	12.57	102.0	6.81	7.61	.33	.26
B3427	.37	15.36	96.0	8.21	8.06	.30	.23
B3863	.30	10.30	76.0	5.87	5.72	.23	.19
B3720	.30	10.16	63.0	6.13	6.23	.24	.29
B3608	.27	12.94	74.0	5.81	6.00	.23	.19
<b>High TNT</b>							
B3775	.61	10.23	68.0	7.31	7.53	.22	.18
B4301	.37	10.65	84.0	6.69	6.85	.24	.18
B3697	.54	13.50	95.0	7.62	6.88	.33	.23
B3516	.22	14.36	81.0	7.61	8.01	.37	.23
B3928	.20	8.75	91.0	5.99	5.95	.24	.24
B3857	.19	7.40	45.0	5.04	5.71	.22	.16

\*This animal became moribund and was killed on June 13.

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TABLE 12  
SUMMARY OF GROSS LESIONS

Control	B3C28	Renal subcapsular hemorrhage.
Low RDX	B4254 B3613 B3776	Renal subcapsular hemorrhage. Nodule on spleen. Small intestine focally thickened.
Medium RDX		No gross lesions.
High RDX	B4050 B3543 B3739	Large intestines and fat appear more yellow than normal. Nodule on right kidney, ? accessory adrenal gland. Killed at request of investigator - postmortem report included.
Low TNT		No gross lesions.
Medium TNT	B3720	Subcapsular renal hemorrhage, left kidney.
High TNT	B3516 B3928	Focal subcapsular hemorrhages. Large intestine - slight mucosal reddening and focal thickenings.

Animals not specifically listed showed no gross lesions.

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TABLE 13

MICROSCOPIC FINDINGSLEGEND

- = negative  
+ = minimal  
++ = mild  
+++ = moderate  
++++ = marked

P = present  
F = focal  
M = missing

TABLE 13  
SUMMARY OF MICROSCOPIC FINDINGS

	BONE MARROW	SMALL INTESTINES	BRAIN	HEART	LUNGS	THYROID	LYMPHOID TISSUE NODULES
	Megakaryocytes	Hemostatin	Perivascular spaces, vacuoles	Myocarditis	Congestion & edema	Degenerative follicles	Degenerative follicles
Controls							
B4218	++	50 0 2 23	p	+	p p p p p p p p p p p p p p p p	-	-
B4066	++	50 0 2 23	p	+	p p p p p p p p p p p p p p p p	-	-
B3528	+++	40 3 0 22	p	++	p p p p p p p p p p p p p p p p	-	-
B3735	+++	70 15 9 1	p	++	p p p p p p p p p p p p p p p p	-	-
B3297	++	50 15 9 1	p	++	p p p p p p p p p p p p p p p p	-	-
B4246							
High KDX							
B4050	+++	20 0 0 25	p	+++	p p p p p p p p p p p p p p p p	-	-
B3406	++	65 4 8 13	p	+++	p p p p p p p p p p p p p p p p	-	-
B3543	++	50 10 9 6	p	+++	p p p p p p p p p p p p p p p p	-	-
B3739	+++	5 0 3 22	p	+++	p p p p p p p p p p p p p p p p	-	-
B3733	+++	45 0 6 19	p	+++	p p p p p p p p p p p p p p p p	-	-
B3609	+++	45 0 6 19	p	+++	p p p p p p p p p p p p p p p p	-	-
High TNT							
B3775	++	45 7 4 14	p	+++	p p p p p p p p p p p p p p p p	-	-
B4301	++	65 3 6 16	p	+++	p p p p p p p p p p p p p p p p	-	-
B3697	++	30 9 9 7	p	+++	p p p p p p p p p p p p p p p p	-	-
B3516	+++	70 25 0 0	p	+++	p p p p p p p p p p p p p p p p	-	-
B3928	+++	60 15 6 4	p	+++	p p p p p p p p p p p p p p p p	-	-
B3957							

TABLE 13 (Continued)  
SUMMARY OF MICROSCOPIC FINDINGS

	SPLEEN	LIVER	KIDNEYS	OTHER
Controls				
84238	++	+	-	Liver: centrilobular postnortem degeneration.
84046	++	+	-	Liver: fatty change; Periarteritis; heart, thyroid.
B3628	++	+	-	Multinucleated cells, tubules
B3735	++	+	-	Eosinophilic inclusions
B3297	++	+	-	++
B4246	++	+	-	+++
High RDX				Stomach: mucosal congestion.
B4050	++	+	-	Thyroid: interstitial edema?
B3406	++	+	-	
B3543	++	+	-	
B3739	++	+	-	
B3733	++	+	-	
B3609	++	+	-	
High TNT				
B3775	+	+	-	Adrenal Gland: hemosiderin at corticomedullary junction.
B4301	++	+	-	Adrenal Gland: supracapsular cortical nodule;
B3697	++	+	-	CNS: mineralization, multifocal, midbrain.
B3516	++	+	-	Lungs: granulomatous pneumonia; CNS: periven-
B3928	++	+	-	tricular granuloma with birefringent
B3857	H	H	H	crystals.

TABLE 13 (continued)  
SUMMARY OF MICROSCOPIC FINDINGS

SPLEEN	LIVER	KIDNEYS	OTHER	
			Low RDX	Medium RDX
	Hemosiderin cord cells	Hemosiderin Kupffer cells Microgranulomas Hepatitis	-	-
	Hemosiderin Kupffer cells Microgranulomas Hepatitis	Dilated tubules Mineralization Medulla Multinucleated cells, tubules Eosinophilic inclusions Subcapsular hemorrhage	-	-
		Small Intestine: hypertrophy of inner muscular layer, marked.		
		Kidney: subepithelial aggregates of phagocytized hemosiderin, renal pelvis.		
		Kidney: focal nephritis with debris casts, cortex.		
		Kidney: focally diffuse subcapsular hemorrhage.		
Low TNT	B3709 B4254 B3613 B3646 B3776 B3617 B3599 B3952 B3563 B3891 B3718 B4093	B3709 B4254 B3613 B3646 B3776 B3617 B3599 B3952 B3563 B3891 B3718 B4093	B3709 B4254 B3613 B3646 B3776 B3617 B3599 B3952 B3563 B3891 B3718 B4093	B3709 B4254 B3613 B3646 B3776 B3617 B3599 B3952 B3563 B3891 B3718 B4093
Medium TNT	B3860 B3559 B3818 B3867 B3848 B3720 B3692 B3782 B3773 B3863 B3427	B3860 B3559 B3818 B3867 B3848 B3720 B3692 B3782 B3773 B3863 B3427	B3860 B3559 B3818 B3867 B3848 B3720 B3692 B3782 B3773 B3863 B3427	B3860 B3559 B3818 B3867 B3848 B3720 B3692 B3782 B3773 B3863 B3427

LITTON BIONETICS, INC.

A-190

PM No.:  
73/1700

NECROPSY REPORT

Animal No.: B3739  
Species: Cyno  
Sex:  
Age:

Birth (Arrival) Date:  
KILL    Death Date: 6/13/73  
Death Time: 11:55 am

Contract or Project: 1366  
Investigator(s): DPM  
Inoculum:  
Inoculation Date:

Pertinent Experimental & Clinical Data:

GROSS NECROPSY: Date: 6/13/73, Time: 11:55 am, Initials: MGV/MB /i/ X/1

Description of gross lesions and additional comments:

Thin and emaciated appearing. Subcutaneous fluid, abdomen, presumably from fluid administration. Veins collapsed and venipuncture difficult. The aorta was cannulated through the left ventricle and perfused with 500 ml. heparinized saline followed by 1000 ml. paraformaldehyde. The descending aorta was clamped and the right atria and ventricle incised. Gross Findings: Edema of salivary glands (perfusion artefact ?), multifocal minute ulcerations and/or hemorrhage in gastric mucosa, frontal lobe of right cerebral hemisphere slightly depressed, kidneys seem small but no lesions readily evident, liver seems small and firm.

Tissues submitted to:

Bacteriology    Virology    Ultrastructure    Hematology    Histopathology    Frozen

Per protocol

to NAVY: 10 ml. blood, no urine, 1 gm. brain

Photography -

Tissues cut by \_\_\_\_\_, date: \_\_\_\_\_, # capsules: \_\_\_\_\_

A-191

Arrived to : B3739  
PM No.: 73/1700TISSUE EXAMINED

	Brain & Appendages
	Mucous Membranes
	Hair
	External Abnormalities
	Lymph Nodes, Superficial
	Mammary Glands
	Ears
	Nerves
	Oral Cavity
	Larynx
	Tongue
	Salivary Glands
* .32	Thyroid
	Parathyroid
	Thymus
	Trachea
	Lung
	Pleura, liver, mediastinum
	Lymph Nodes, Thoracic
	Pericardium
* 7.83	Heart
	Peritoneum, Peritoneal cavity
	Mesentery & Omentum
*37.89	Liver
	Gallbladder
	Spleen
	Pancreas
	Lymph Nodes, Abdominal
	Other

GROSS-PROTO.

	Esophagus
	Stomach
	Small Intestine
	Duodenum
	Jejunum
	Ileum
	Large Intestine
	Cecum
	Colon
	Rectum
* 5.41	Kidney (left)
* 4.72	Kidney (Right)
* .42	Adrenal Gland (left)
* .33	Adrenal Gland (right)
	Urinary Bladder
	Gonad (left)
	Gonad (Right)
	Uterus, Prostate
	Vagina, Seminal Vesicle
	Bone Marrow
	Sternum
	Rib
	Femur
	Bone Marrow Smear
	Brain
	Pituitary
	Spinal Cord (Cervical)
	Eye, left; _____ Right
	Optic Nerves
	Cranium
	Nerve with Muscle

LEGEND: - = normal  
 + = lesion/abnormal  
 A = autolyzed  
 NP = not present  
 NE = not examined  
 \* = as per protocol